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NEWBERG, OREGON



**1969-70**

**Catalog Edition**

**George Fox College Bulletin  
Newberg, Oregon**

# Directory

CORRESPONDENCE MAY BE ADDRESSED AS FOLLOWS:

ACADEMIC RECORDS AND TRANSCRIPTS—Registrar

ALUMNI AFFAIRS—Director of Alumni Affairs

APPLICATION FOR ADMISSION—Director of Admissions

BUSINESS MATTERS (Including housing for married students)—Dean  
of Administration

COURSES OF STUDY—Dean of Faculty

DEVELOPMENT—Director of Development

GENERAL INFORMATION—Correspondence having to do with matters  
other than those specified should be addressed to the Office of the  
President.

INFORMATION CONCERNING SCHOLARSHIPS, LOANS, AND  
EMPLOYMENT—Student Financial Aid Officer

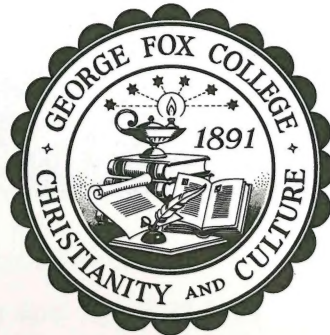
PUBLIC INFORMATION SERVICES—Director of Public Relations

GEORGE FOX COLLEGE  
NEWBERG, OREGON 97132  
Telephone: (503) 538-2101

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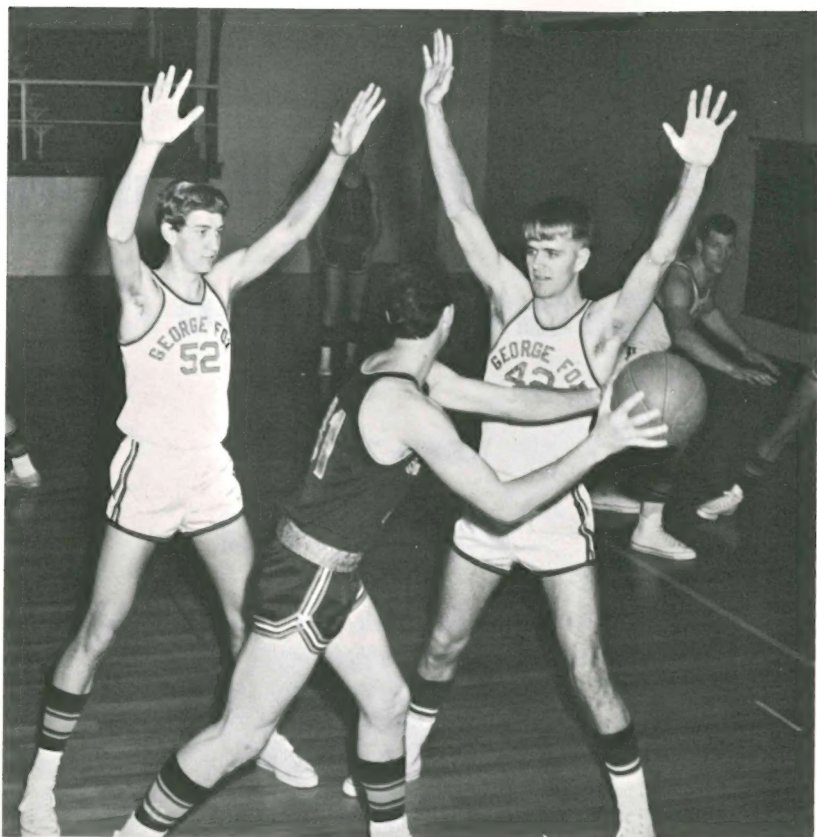
**GEORGE FOX COLLEGE BULLETIN**  
**NEWBERG, OREGON 97132**

Vol. LXI, No. 4

Winter, 1969

Published quarterly by the Public Relations Office, George Fox College, Newberg, Oregon 97132. Entered as second class matter June 22, 1908, at the post office at Newberg, Oregon, under the act of July 16, 1894.





## ACCREDITATION AND MEMBERSHIPS

George Fox College is accredited by the Northwest Association of Secondary and Higher Schools, and by the Oregon Board of Education for the preparation of secondary teachers in specific fields. It is approved by the Oregon State System of Higher Education for the training of elementary teachers in conjunction with the Oregon College of Education in a joint-degree program, by the Federal Government and the State of Oregon for the education of veterans, by the United States Attorney General for the admission of alien students, and by the American Association of University Women.

The college holds memberships in the National Council of Accrediting, the Association of American Colleges, the Association of Schools of Religious Education, the Friends Council on Education, the Association of American Friends Colleges, the College Entrance Examination Board, the College Scholarship Service, and the National Association of Foreign Student Affairs.



# Contents

This catalog presents an outline of courses, requirements for admission and general information for the academic year 1969-70. The registers of faculty, administration, and Board of Trustees are for the year 1968-69.

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## CALENDAR 1969

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# The Calendar 1969-70

## FALL TERM

September 11-13, Thursday-Saturday ..... Faculty preschool conference  
September 24, Wednesday 2:00 p.m. .... Dormitories open to freshmen  
September 25-29, Thursday-Monday ..... Orientation week  
September 26, Friday ..... Registration of freshmen  
September 28, Sunday 2:00 p.m. .... Dormitories open to upperclassmen  
September 29, Monday ..... Registration for sophomores, juniors, seniors  
September 30, Tuesday ..... Classes begin  
October 5, Sunday ..... Fall Convocation  
October 6, Monday ..... Last day to change or add to academic program  
October 24, Friday ..... Last day to withdraw with "W"  
November 11, Tuesday ..... National holiday—no classes  
\*November 26-30, Wednesday noon-Sunday ..... Thanksgiving vacation  
December 1-5, Monday-Friday ..... Registration for winter term  
December 15-18, Monday-Thursday ..... Final examinations  
\*December 18, Thursday ..... Term ends

## WINTER TERM

January 4, Sunday, 2:00 p.m. .... Dormitories open, buffet 5:30-6:30  
January 5, Monday ..... Classes begin  
January 12, Monday ..... Last day to change or add to academic program  
January 30, Friday ..... Last day to withdraw with "W"  
February 7, Saturday ..... Future Freshmen Day  
February 23, Monday ..... National holiday—no classes  
March 2-6, Monday-Friday ..... Registration for spring term  
March 16-19, Monday-Thursday ..... Final examinations  
\*March 19, Thursday ..... Term ends

## SPRING TERM

March 30, Monday, 2:00 p.m. .... Dormitories open, buffet 5:30-6:30  
March 31, Tuesday ..... Classes begin  
April 6, Monday ..... Last day to change or add to academic program  
April 24, Friday ..... Last day to withdraw with "W"  
May 25-29, Monday-Friday ..... Registration for fall term  
June 5-7, Friday-Sunday ..... Commencement weekend  
June 7, Sunday ..... Commencement and baccalaureate  
June 8-11, Monday-Thursday ..... Final examinations  
\*June 11, Thursday ..... Term ends

\* At vacation time or at the end of the term, the last meal to be served in Heacock Commons will be at noon. Dormitories close at 4:00 p.m.





# The College

Early Quaker settlers in the Willamette Valley of western Oregon founded Pacific Academy at Newberg in 1885. Six years later, more advanced education was also provided by the establishment of Pacific College. Pacific Academy was discontinued in 1930, and Pacific College was renamed George Fox College in 1949, honoring the founder of Quakerism.

The college is governed by a Board of Trustees elected by Oregon Yearly Meeting of Friends Church, which has historically emphasized: the necessity of a genuinely experiential religious faith; the spiritual nature of the ordinances; the importance of peacemaking and responsible social action; and the freedom for individuals to exercise liberty of conscience. With many other Christians, the college holds the great, historic truths of Christianity including: the deity of Jesus Christ; the authority and inspiration of the Holy Scriptures; the necessity of salvation for man; and the present ministry of the Holy Spirit.

George Fox College invites students of all races and creeds to participate in its educational programs.

## OBJECTIVES

The objectives of the college are to:

1. Provide academic programs that are in keeping with a liberal arts tradition.
2. Offer liberal arts programs that prepare students: to do graduate work; to assume the responsibilities and duties related to their chosen profession, including public school teaching; and to enter professional schools such as engineering, law, medical technology, medicine, ministry, and nursing.
3. Maintain a program of varied activities designed to develop a greater capacity for moral and ethical judgments in relationships with other



persons and to develop a greater desire to serve mankind in a spirit of Christian love.

4. Provide a center for the evangelical movement among Friends, consistent with the message of their founder, and for the education of Quaker students concerning the history and Christian doctrines of their denomination.

5. Promote cocurricular activities that will emphasize the development of leadership, initiative, and teamwork, by giving opportunity to make practical use of the skills and ideas acquired in academic courses.

6. Produce a community in which studies and activities are made relevant to life, insight into social and political issues confronting mankind is developed, and participation in decision-making and policy-implementing as responsible citizens is learned.

7. Serve as a cultural center for all publics of the college and to sponsor programs which are informative and culturally stimulating to the larger college community.

## FACILITIES

George Fox College is located on a lovely rural campus covering forty-four acres in a friendly town of 5,000 only a half-hour's freeway drive from Portland, Oregon. Fifteen buildings have been constructed or remodeled in the last ten years; plans for others are underway, including a chapel-fine arts complex.

WOOD-MAR HALL contains the administrative offices, three classrooms, the chapel, and the printing offices.

MINTHORN HALL is the only first-generation building yet in use. Completely remodeled and refurbished in 1962, it houses classrooms and offices for education and psychology, a curriculum library for teacher training, an audiovisual center, and the faculty lounge.

BROUGHER HALL, erected in 1947 and remodeled and enlarged in 1959 and 1961, contains physics laboratories, mathematics and art classrooms, the computer center, and a shortwave radio station.

HESTER MEMORIAL GYMNASIUM has a collegiate-size floor, game room, body-building room, dressing rooms, and offices for both men's and women's physical education.

SHAMBAUGH LIBRARY, dedicated in 1962, is built to house 50,000 volumes on three floors. Its features include study carrels, rare book collections, microfilm room, music listening room, soundproof typing room, museum, audiovisual auditorium, seminar room, and art and record collections.

SMITH APARTMENTS has five units for married students.

WEESNER VILLAGE consists of twelve apartments designed for use by faculty or married students.

PENNINGTON HALL, built in 1962, is a coeducational dormitory for 100 students. It provides an infirmary, a guest room, a soundproof study room, a central lounge, game rooms, and a deans' apartment.

EDWARDS HALL is a residence hall for women constructed in 1964, overlooking Hess Canyon. It houses 106 students.



**HOBSON HALL**, dedicated in 1968, is a residence hall for seventy-five men.

**STUDENT UNION**, built in 1958 and enlarged in 1968, includes a lounge, prayer room, snack area, book store, post office, TV room, game room, and offices for the student organizations.

**HEACOCK COMMONS**, built in 1964-65, adjoins the Student Union Building and provides a modern dining hall and kitchen.

**CALDER CENTER**, built in the summer of 1964, is the combination of three hexagon modules providing eighteen classrooms for science, home economics, and foreign languages; nine offices for faculty members; and a lecture hall that seats 165 persons.

**FINE ARTS BUILDINGS I and II**, constructed in 1947, house classrooms, studios, practice rooms, the music library, and faculty offices for the music department.

**COLCORD MEMORIAL FIELD** contains a new track, football field, baseball diamond, and hockey field.

**TENNIS COURTS**, tournament type, were built in 1961.





# **Campus Life**

The primary concern at George Fox is that each student realize his fullest potential in Christ. Programs of residence life, health services, athletics, student government, and counseling are designed to help achieve this objective.

## **RESIDENCE LIFE**

Three modern dormitories, all built within the past seven years, are designed to house 300 students. Pennington Hall, with a capacity of one hundred, is a coeducational residence with separate wings for men and women students. Edwards Hall is a residence for 104 women designed with two separate wings of three floors each. Hobson Hall is a men's residence with a capacity of seventy-four students in the canyon setting on the eastern edge of the campus. In addition, there are twelve apartments located in Weesner Village available to married students. Student rooms are furnished with beds, mattresses, study areas, and wardrobes. Students are expected to provide their own bedding (except linens), towels, and other furnishings. Bed linens are furnished by the college. All belongings should be marked clearly for identification. Laundry facilities are provided in each residence. If a student has a preference regarding residence hall placement, he should notify the admissions office in writing.

## **HEALTH SERVICES**

The college nurse works in close cooperation with local physicians to provide student health services. She maintains regular hours for appointments. Students in need of medical care at other times may contact her at home.

An accident insurance policy is in force for all students. Insurance forms must be secured from the college nurse prior to treatment. In case



of emergency illness or accident, the college assists in sending a student to the local hospital and in procuring the services of a physician as required.

## ATHLETICS

George Fox College offers a broad athletic program. The college is a member of the Oregon Collegiate Conference and competes in football, basketball, baseball, track, cross country, wrestling, and tennis. The other members of the conference are Southern Oregon College, Oregon Technical Institute, Eastern Oregon College, and Oregon College of Education. George Fox is also a member of the National Association of Intercollegiate Athletics. Women students compete in field hockey, volleyball, badminton, basketball, tennis, and softball. For those not participating in varsity athletics, GFC has a complete intramural program including flag football, basketball, volleyball, and softball.

## STUDENT ORGANIZATIONS

THE ASSOCIATED STUDENTS OF GEORGE FOX COLLEGE is an organization of all students in the college who carry at least twelve term hours. It is the governing assembly of the student body. The Student Council, consisting of the association officers and class representatives, heads the organization. The ASGFC sponsors the publication of the campus newspaper, *The Crescent*, and the student yearbook, *L'Ami*. It also sponsors such activities as the annual May Day celebration and student social events.

THE STUDENT CHRISTIAN UNION coordinates Christian activities on the campus and provides varied opportunities for every student who desires to participate in some phase of Christian work.

THE INTERNATIONAL CLUB confronts club members and the entire student body with the possibilities of missionary service at home and abroad. Because of the changing nature of the role of missions in the world, the club seeks to promote a person-to-person program of Christian service. Students from abroad are invited to participate in the International Club, thereby providing a valuable intercultural aspect to the club's programs.

THE STUDENT MINISTERIAL ASSOCIATION is composed of students who have an interest in full-time service as pastors, evangelists, or missionaries.

THE FOXMEN is for all men who have won a varsity letter in any major sport and who have been duly elected.

GOLD "Q" CLUB consists of girls who have won one or more letters in college sports. The club endeavors to further all athletic activities and foster student enthusiasm.

DELTA PSI OMEGA is a national honorary club which promotes student participation in dramatic presentations.

THE A CAPPELLA CHOIR is composed of selected singers who represent the college in concert tours and campus appearances. Any student may audition. Emphasis is placed upon spiritual, meaningful interpretation of sacred and choral literature.

STUDENT OREGON EDUCATION ASSOCIATION seeks to prepare prospective teachers for educational leadership. The club sponsors various projects and meetings with special educational emphases.

SCRIBBLERS CLUB is composed of persons interested in literature. The club promotes the appreciation of literature, creative writing, and discussion of the various authors and their works. Periodically the club sponsors the publication of an anthology of students' writings.

PI GAMMA SIGMA HONOR SOCIETY is composed of students who maintain high scholastic standing. The purpose of the organization is to promote interest in and sponsor intellectually challenging activities on the campus.

CIRCLE K INTERNATIONAL is a campus service club sponsored by Kiwanis International. The purpose of this club is to promote citizenship and service in college life.

KAPPA TAU EPSILON is an association of women students of George Fox College. Organized in 1964, it governs the women students of George Fox College. Every woman enrolling in George Fox College automatically becomes a member of Kappa Tau Epsilon. The annual dues are \$1.50; 50¢ is collected by the bursar of the college each term.

## ACTIVITIES

HOMEcoming is one of the major campus events of the year when the entire college community hosts returning alumni.

FUTURE FRESHMEN DAY is held on a Saturday during winter term when the faculty describes to interested high school seniors the academic course offerings, social, cultural, and spiritual advantages that the college provides for its students.

MAY DAY celebration is directed by the Associated Students and is held annually on the first Saturday of May.

FORENSICS is emphasized through the speech contests of the Inter-collegiate Forensics Association of Oregon in oratory, extemporaneous speaking, after-dinner speaking, and debating.

DRAMA presents one major dramatic production each term. In addition, minor presentations are given, often under the sponsorship of Delta Psi Omega.

PUBLICATIONS include a newspaper, *The Crescent*, and an annual, *L'Ami*. Elected editors direct their staffs in the selection and preparation of materials for these publications. *The Crescent* is a member of the Associated Collegiate Press.

CHRISTIAN EMPHASIS WEEKS are sponsored each year by the Student Christian Union. Outstanding Christian leaders are brought to campus for chapel presentations, smaller group meetings, and personal counseling sessions.

MISSIONS CONFERENCE is sponsored annually by the Student Christian Union. Executives and missionaries from numerous organizations participate through chapel messages, classroom presentations, and exhibits.

## **COCURRICULUM AND ELIGIBILITY**

Cocurricular activities are considered a vital part of the George Fox College experience. These activities are defined as all organized activities not directly connected with the requirements of a specific course of study: intercollegiate athletics, positions in student government, club offices, drama, and intercollegiate debate. To prevent jeopardizing academic achievement through excessive involvement in cocurricular activities, an eligibility standard is adhered to as follows:

1. A student must be enrolled in a minimum of twelve hours to be eligible for participation in cocurricular activities.
2. Students who enter college provisionally may participate in cocurricular activities during their first term. Thereafter, they come under the eligibility standards for regular students.
3. Regular students who drop below the performance level in any particular term (see page 21 for a complete explanation of what constitutes poor performance) will have their programs reviewed by the Academic Committee. This committee is empowered to require curtailment of curricular, cocurricular, or work activities.

## **STUDENT RELIGIOUS LIFE**

The college believes an important phase of student life is the maintenance of the highest standards of Christian conduct. The churches of the community maintain varied programs of activity for college youth. Regular church attendance is desired of all students.

Chapel services provide a source of Christian inspiration and instruction. Chapel attendance is required of all students enrolled for twelve or more credit hours. Chapels are held three days each week and one day of each week is used for class meetings. A variety of programs is presented in chapel. The Associated Students of George Fox College usually hold their business meeting on Friday. Musical programs, outstanding speakers, faculty, and student participation seek to produce interesting, informative, inspirational chapel services and convocations. Chapel seating is assigned and an attendance roll is maintained. The dean of students may grant excuses for necessary chapel absences.

The inclusion in the curriculum of required courses in religion is designed to ensure a knowledge of the Bible and Christian philosophy.

Deputation work is encouraged as a means of developing abilities of students in the work of the church. Anyone representing the college in deputation work must be authorized to do so by the college administration.

The Student Christian Union sponsors a weekly prayer meeting, two weeks of Christian Emphasis each year, and an annual missions conference.

## **STUDENT CONDUCT**

When a student enters the college, he agrees in writing to have due regard for the regulations of the institution. All regulations are designed to allow the fullest liberty consistent with efficient work while at the same time promoting the welfare of the college community.



Since its beginning, those who have carried the responsibility for the management of George Fox College have agreed that its purpose could not be fulfilled nor the best interests of its students served without placing a ban upon the use or possession of alcoholic beverages, hallucinatory drugs, tobacco, and participation in gambling and dancing. When the Administrative Council considers it advisable, any student whose actions are antagonistic to the ideals of George Fox College may be dismissed.

The administration believes that marriage within a unit of study is a hindrance to the best work of students and strongly advises that such plans be postponed until the unit of study is completed. It is requested that students not marry during a term without permission of the administration.

A full presentation of regulations governing student conduct and discipline is available in the student handbook.





# **Admissions, Expenses, and Financial Aid**

George Fox College maintains high standards for admission and examines each student on his own merits. The college admits those students believed most likely to profit from its curriculum and its Christian educational philosophy. Students are evaluated on the basis of scholastic achievement, indication of mental competence, personal maturity, social responsibility, and willingness to profit from the Christian environment.

Graduates from accredited high schools or other secondary schools of equal standing with an official transcript showing satisfactory completion of sixteen properly distributed units of work are eligible for admission. The following high school units are recommended: English, 4; social studies, 2; science, 2; mathematics, 2; language, 2; health and physical education, 1. It is required that high school students planning to apply for admission take the College Board test. Students should send their test scores to the Office of Admissions, George Fox College, Newberg, Oregon 97132. A limited number of applicants for admission to the freshman class whose grade-point average for their high school work is less than a "C" or its equivalent will be admitted on provision for one term.

## **Admissions Procedure**

1. Write to the Director of Admissions, George Fox College, Newberg, Oregon 97132, for information and admission forms.
2. Request a transcript of academic credit from the secondary school last attended. Transfer students from other colleges must request both the high school transcript and a transcript from each college in which they have been registered.
3. Complete the admission form and return it to the Director of Admissions. A nonrefundable application fee of \$10 shall accompany the admission form.



4. Submit reference sheets to designated persons who will return the completed reference to the Admissions Office.

5. When all forms have been received, and the admission fee paid, the student's file is complete. He will then be presented to the Admissions Committee for action. Notification is given the applicant promptly following the committee's decision.

6. Upon acceptance, a tuition deposit of \$30 must be submitted. This must be received by May 1 for fall term applicants, or three weeks after acceptance if this occurs after May 1, or if the application is for a term other than the fall.

7. Before the accepted student may enroll for any course, he must submit to a physical examination.

8. It is recommended that all applicants for financial aid complete application for admission by April 1. All applications for admission should be in process by June 1.

## EXPENSES

All tuition, fees, and residence costs are due and payable *on or before registration each term*. A student is not registered and cannot attend classes until he has:

1. Paid his account in full, or
2. Had his parents sign a contract for a monthly payment plan with Education Funds Inc. Information may be obtained from the Student Financial Aid Officer.

## Term Charges

### TUITION AND FEES

1-11 hours—\$32.50 per hour

12-17½ hours—\$360.00 per term

Over 17½ hours—\$32.50 for each additional hour

General Fee, ten or more hours\*—\$22.00

Library Fee, ten or more hours—\$10.00

Student Affairs Fee, ten or more hours\*\* (men) \$24.00  
(women) 24.50

### ROOM AND BOARD\*\*\*

Pennington Hall, double room ..... \$280.00

Pennington Hall, single room ..... 305.00

Edwards Hall ..... 280.00

Hobson Hall ..... 280.00

Weesner Village (honor dorm-apartments) ..... 290.00

Room damage deposit\*\*\*\* ..... 20.00

\* The general fee is paid by all students enrolled for ten or more hours. It is applied to the cost of student hospital-medical-surgical insurance. This coverage is for twenty-four hours a day during each term. It provides coverage while traveling to and from school during vacation periods, other than summer vacation.

\*\* Student affairs fee is assessed to each student enrolling for ten or more hours. It is collected by the business office acting as agent for the As-

sociated Students at the time of registration. The fees underwrite student publications, the Student Union Building, and admission to athletic events.

\*\*\* All students living in college housing are expected to board in Heacock Commons. Meal tickets may also be purchased by commuting students.

\*\*\*\* A \$20 room damage deposit is required of all residence hall students. Each student is responsible for the proper care of his room. An opportunity is given at the time of occupancy for a student to certify the condition of his room. Any damage other than that existing at occupancy is the responsibility of the student occupying the room. This does not apply, of course, to normal "wear and tear." The \$20 deposit will be assessed for damages charged to the student. Any balance remaining is refundable at the close of the term.

Special Fees

Late registration, \$5.00 per day up to .....	\$15.00
Change of registration .....	3.00
Chemistry breakage (unused portion refundable) .....	5.00
Special examination .....	5.00
Joint-degree registration (per term) .....	5.00
Graduate Record Examination .....	10.00
Graduation .....	15.00
Applied music: voice, piano, organ, instruments (per term) .....	35.00
Music practice room (one hour daily per term) .....	5.00
Instrument rental (per term) .....	5.00
Room reservation deposit (returning students)* .....	30.00
Physical education activity: swimming, golf, bowling (per term) ....	12.50
Automobile, \$2.00 per term, or per year .....	5.00
Audit of courses (per term hour) .....	17.00
Transcript (each after first copy) .....	1.00

Provisional students will be charged an additional fee each term to cover the cost of remedial services.

\* Ten dollars of the deposit is nonrefundable. Twenty dollars is refundable if requested before August 1.

General Information

1. No student dismissed by the college will receive any refund for tuition, fees, or room. A refund of ninety percent of the board will be prorated as of the last day on campus. Any unpaid balance allowed for work credit becomes immediately due and payable.

2. George Fox College reserves the right to change its charges at any time without previous notice.

3. The Board of Trustees of George Fox College is concerned with the entire twenty-four-hour day of its students. College officials have been requested to have as many students as possible live on campus: Edwards Hall, Hobson Hall, Pennington Hall, or Weesner Village. All unmarried women and men students under the age of twenty-one whose homes are not in Newberg are expected to live in supervised on-campus dwellings unless excused for valid reasons. Comfortable apartments for married students are available.

4. The college is not responsible for loss or damage to a student's personal property. Any damage to college property caused by a student must be compensated for by the student. Students who fail to comply with dormitory and college regulations are subject to disciplinary action.

5. Transcripts or diplomas will not be granted to students whose accounts have any balance due.

6. Students who withdraw from college and who have complied with the regulations governing withdrawals are entitled to refunds as follows:

#### **TUITION, GENERAL FEE, AND LIBRARY FEE REFUND**

During first week of class—90%

During second week of class—80%

During third week of class—60%

During fourth week of class—40%

During fifth week of class—20%

After fifth week of class—0%

Refunds are effective from the date the application for refund is received in writing and not from the date attendance is discontinued.

#### **ROOM REFUND**

Room refund for any student withdrawing from school or moving off campus will not be made unless the room is reoccupied by an off-campus student at that time. The refund will be computed for the part of the term remaining for the new occupant.

#### **BOARD REFUND**

Ninety percent of the board will be refunded on a prorated basis as of the last day on campus for any student withdrawing or moving off campus.

## **FINANCIAL AID**

### **Honors**

A limited number of Honors Scholarships are awarded each year. Each student graduating in the upper ten percent of his high school class and scoring at the eightieth percentile or above on the SAT section of the College Board Examination is eligible. An honors award may be granted and the award may be continued for a term at a time if the recipient achieves a cumulative grade-point average of 3.50. (A student must pass a minimum of twelve term hours in order to be eligible for honors the next term.) Thus, high ranking students may receive scholarships totaling \$2,100 in the four years.

George Fox College is a member of the program of the California Scholarship Federation. The CSF honors high school seniors who are in the upper ten percent of their class.

### **Graduation Honors**

Graduation Honors are conferred upon a student whose cumulative GPA is maintained at a high level during his entire college course. Students with a cumulative 3.50 at graduation are awarded their degrees *cum laude*; those with a cumulative 3.70 receive their degrees *magna cum laude*; those with a cumulative 3.90 receive their degrees *summa cum laude*.



## **Scholarships and Grants-in-aid Available to Freshmen Students**

Scholarships other than those listed on these pages are available to students planning to attend George Fox College. Students should investigate local scholarships and grants offered through their high school or community organizations.

### **DR. JOHN C. AND ESTHER BROUGHER PREMEDICAL SCHOLARSHIP**

The Scholarship Committee annually awards a scholarship of \$250, donated by Dr. and Mrs. John C. Brougher of Vancouver, Washington, to a student enrolled in a premedical course.

### **CRISMAN BROTHERS SCHOLARSHIP**

Three Crisman brothers, Clynton, Leo, and Iryl, members of a Camas, Washington, Quaker family, have founded a \$150 annual scholarship for a worthy incoming freshman. Award is made by the Scholarship Committee.

### **INTERNATIONAL STUDENT SCHOLARSHIP**

Students from missionary fields abroad may receive up to full tuition.

### **HONORS AT ENTRANCE (See above)**

### **THERON JAMES SCHOLARSHIP**

This scholarship is offered to a graduate of Willamette High School of Eugene. The selection is made by the James family after the student has been accepted by George Fox College.

### **MINTHORN GRANT-IN-AID**

One \$300 grant is awarded each year.

### **MUSIC GRANTS-IN-AID**

Each year the college awards two music grants-in-aid of up to \$105 a year (\$35 per term) generally used to provide private voice or instrumental lessons.

### **NATIONAL MERIT SEMIFINALISTS**

A one-fourth tuition scholarship is granted to any eligible semifinalist who shows need.

### **NEWBERG FRIENDS CHURCH GRANT-IN-AID**

The College Church provides a \$200 grant each year to a qualified freshman deemed worthy by the Scholarship Committee and the Monthly Meeting.

### **PORTLAND FIRST FRIENDS CHURCH GRANT-IN-AID**

A grant of \$200 per year is awarded to a student from the Portland area who meets the character and financial need requirements.

### **FRANK D. ROBERTS FAMILY MEMORIAL SCHOLARSHIP**

This award is underwritten by the children of the late Frank Roberts, long-time principal of Greenleaf Academy. The one-half tuition scholarship is granted each year to a student having the highest rank in scholarship and character from Greenleaf Academy.

### **ROBERTSON GRANT-IN-AID**

One grant-in-aid in the amount of \$100 is awarded each year to a child of missionaries. This is given by Robert Robertson.

### **PUGET SOUND QUARTERLY MEETING GRANT-IN-AID**

A grant in the amount of \$250 is awarded each year to a student from Puget Sound Quarterly Meeting. This is awarded on the basis of scholarship, character, and financial need.

### **SALEM QUARTERLY MEETING GRANT-IN-AID**

Each year the Salem Quarterly Meeting of Friends offers to a student from that Quarterly Meeting a one-half tuition grant, which is awarded on the basis of scholarship, character, and need.

## **Scholarships Available to Students Above Freshman Level**

### **ANKENY FAMILY ATHLETIC AWARD**

This award, in the amount of \$500, is given yearly to a male junior athlete planning to coach and teach physical education. The recipient must reside in one of the thirteen western states (including Alaska and Hawaii).

### **DR. JOHN C. AND ESTHER BROUGHER PREMEDICAL SCHOLARSHIP**

For description see Scholarships for Freshmen above.

### **DOROTHY M. CAMPBELL MEMORIAL SCHOLARSHIP**

This one-half tuition scholarship is provided through the Dorothy M. Campbell Memorial Fund established by the family and friends of Dorothy M. Campbell. The award is made to a sophomore or upperclassman preparing for missionary service. Alternate consideration may be given to students preparing for other areas of Christian ministry. Selection is made upon the recommendation of the Division of Religion. Any recipient who continues to qualify may reapply for the following year.

### **CONTINUING HONORS**

For description see Scholastic Honors above.

### **INTERNATIONAL STUDENT SCHOLARSHIPS**

For description see Scholarships for Freshmen above.

### **FOWLER SCIENCE SCHOLARSHIP**

This is a one-half tuition scholarship awarded by G. Ross Fowler of San Francisco to a student with high proficiency who is majoring in mathematics.

### **HOLMAN PHILOSOPHY SCHOLARSHIP**

Jack S. Holman, prominent Newberg businessman, provides a \$600 scholarship for an upper-class student on the recommendation of the Division of Religion.

### **INTENSIFIED STUDIES SCHOLARSHIPS**

A small number of the highest-ranking students is selected at the end of the freshman year, or later, to enter the challenging Intensified Studies program. Gifts have been provided so that these youth may be freed from unnecessary financial concern.

### **JACKSON FOUNDATION SCHOLARSHIP**

The Jackson Foundation makes a \$500 grant each year to the college to be awarded to a student who is a graduate of an Oregon high school, has the ability to do high quality college work, and is in need of financial assistance. Preference is given to the son or daughter of any present or former employee of the *Oregon Journal*.

### **KENT MINISTERIAL SCHOLARSHIP**

A half-tuition scholarship is awarded to a junior or senior student planning to enter the ministry. Selection is made by the Division of Religion.

### **MUSIC GRANTS-IN-AID**

For description see Scholarships for Freshmen above.

### **REMPEL SCIENCE SCHOLARSHIP**

This is a one-half tuition scholarship awarded by Professor Evan Rempel, of George Fox College, to a student with high proficiency in the field of mathematics.

### **SALEM QUARTERLY MEETING GRANT-IN-AID**

For description see Scholarships for Freshmen above.

### **ACTIVITY GRANTS-IN-AID**

Available to students proficient in athletics, drama, music, and speech. A 2.00 cumulative GPA is required.

## **Additional Financial Aid Information**

1. National Defense loans are available for students.
2. United Student Aid Funds loans are available to sophomores, juniors, and seniors.
3. Education Funds Incorporated offers loans to parents of students on a monthly repayment basis. All EFI plans include insurance on the life of the parent, total and permanent disability insurance on the parent, plus trust administration in event of the parent's death or disability. Agreements may be written to cover all costs payable to the college over a four-year period in amounts up to \$14,000.
4. Student employment on campus is available to worthy applicants within a limited budget. The college also assists in securing off-campus employment.
5. Requests for financial information should be directed to the Student Financial Aid Officer.
6. Foreign students accepting scholarships are expected to continue at George Fox College until graduation. If they transfer to another college before graduation, except for reasons beyond their control, they will be required to refund all scholarship aid.

## **Discounts**

1. The college grants full tuition to unmarried sons or daughters of full-time faculty or staff.
2. The college grants one-half tuition discount to a faculty or staff member and/or spouse enrolled for a college course.
3. Students receiving discounts must attain a cumulative GPA of at least 2.00 by the time they begin their third year of college in order to continue to receive the discount.
4. Any parent with two or more unmarried sons or daughters at George Fox College under twenty-one shall be eligible for a ten percent discount from tuition charges for each son or daughter in addition to the



first in attendance, provided the total term charges are paid at the time of registration.

## **Application Process for Financial Aid**

Application for financial aid for a student first entering George Fox College is made at the time he applies for admission. The application must indicate in the space provided his desire for aid. He must also list explicitly his first choice of the scholarships or grants offered. A second choice may be listed if the applicant so desires.

George Fox College participates in the College Scholarship Service (CSS) of the College Entrance Examination Board. Participants in CSS subscribe to the principle that the amount of financial aid granted a student should be based upon financial need. The CSS assists colleges and universities and other agencies in determining the student's need for financial assistance. Entering students seeking financial assistance are required to submit by June 1 a copy of the Parent's Confidential Statement (PCS) form to the College Scholarship Service designating George Fox College as one of the recipients. The PCS form may be obtained from a secondary school or the College Scholarship Service, P.O. Box 176, Princeton, New Jersey 08540, or P.O. Box 1025, Berkeley, California 94704.



# Academic Regulations

The college year at George Fox College is divided into three terms of approximately eleven weeks each. The unit of credit is the term hour that is normally granted for the satisfactory completion of a course meeting one period (fifty minutes) per week for one term. Credit for all courses is indicated in term hours; all student requirements, advancements, and classifications are based on these units.

## THE GRADING SYSTEM

Term grades are determined by the instructor's evaluation of the student's daily participation in class, his performance on periodic tests, his work on term papers and class projects, and his achievement on final examinations. The grades used and their significance are as follows:

A—exceptional work; B—superior work; C—average work; D—inferior work, but still passing; F—failure to complete work sufficient in quantity and quality to receive credit (credit may be earned only by repeating the course); I—this mark, signifying incomplete, is given only to a student whose work has not been completed by the end of the term because of circumstances beyond his control. Removal of an incomplete must be accomplished during the first term following the one in which it is given. A further extension of time may be granted for sufficient reason on petition to the Academic Committee. After the expiration of the allotted time, if the work has not been completed, the mark "I" will be changed to "I-F" signifying an incomplete changed to failure. The grade "F" is also given for unofficial withdrawal from a course.

## GRADE-POINT AVERAGES

Grade points are given for each term hour according to the following schedule: A, 4 points; B, 3 points; C, 2 points; D, 1 point. Grade points are assigned for the purpose of determining scholastic averages. A stu-

dent's grade-point average (GPA) is computed by dividing the total number of grade points earned by the sum of the graded hours attempted, including failures, but excluding incompletes and noncredit courses. The GPA on the most recent term of attendance is the current GPA; that computed on the student's entire period of enrollment in George Fox College and other colleges attended is his cumulative GPA.

A student may repeat a course in which he received a "D" or "F." The first grade will remain on the permanent record, but only the higher grade will be computed in the GPA. The "D" or "F" received the first time will be starred (\*) on the permanent record to indicate that the course has been repeated. A student may repeat a course from another accredited college in which he has received a "D" or "F" grade, or George Fox College will accept a course taken at another accredited college with a higher grade to replace a "D" or "F" course taken at George Fox College.

## CLASSIFICATION

Classification is based upon the student's academic standing in terms of hours and grade points at the beginning of the term. Students may be classified as regular students only when entrance requirements have been met and official transcripts have been received and evaluated. To enter as a freshman, the high school transcript must show a cumulative GPA of 2.00 or higher if one is to be classified as a *regular* student. A student who is accepted for admission into George Fox College with a cumulative GPA below 2.00 from high school will be classified as a *provisional* student.

### Regular Students

Students who have satisfied entrance requirements and are following a program leading to a degree are called regular students. They are classified as follows:

**FRESHMEN**—Students who have completed fewer than 45 term hours

**SOPHOMORES**—Students who have completed 45 term hours

**JUNIORS**—Students who have completed 93 term hours

**SENIORS**—Students who have completed 141 term hours.

### Special Students

Students who are not working toward a degree but who wish to follow a definite program of studies may be enrolled as special students under the guidance of a counselor and the Academic Committee. Entrance into or change from special-student status must be at the recommendation of the Academic Committee. Credits earned by a special student will be applicable toward a degree upon approval of the Academic Committee. A special student may take an upper division course without having upper division classification provided that he has completed the specific prerequisites for the course.

### Auditors

By special permission of the instructor in charge and the Academic Committee, certain persons may be admitted as auditors to courses from



which they can derive benefit without participation and without individual help from the instructor.

## Unclassified Students

Those who for acceptable reasons, such as delayed transcripts, have not yet met all requirements for full classification as well as students who are regularly enrolled in another college but who wish to register for specific courses at George Fox College will be listed as unclassified.

## Provisional Students

Students whose cumulative GPA falls below the levels listed below will be classified as provisional students:

	GPA
Entering freshmen (high school)	2.00
Freshmen	1.75
Sophomores	1.90
Juniors and seniors	2.00

### THE FOLLOWING SPECIAL CONDITIONS APPLY FOR PROVISIONAL STUDENTS:

1. Cocurricular activities may be reduced. Students with provisional standing may be required to reduce their part-time job and/or their other cocurricular activities at the discretion of the Academic Committee.

2. Academic load must be reduced. Provisional students will not be permitted to register for more than twelve term hours, except by permission of the Academic Committee.

3. Special tutoring and/or pre-session are required. Beginning with the 1969-70 year, all freshmen admitted as provisional students are required to attend a pre-session held in August and early September. They must successfully complete this program before they are permitted to enroll in regular classes. All provisional students are required to arrange for special tutoring or counseling (as stipulated by the academic advisor) for which one hour tuition charge shall be paid.

### OPERATIONAL PROCEDURES THAT APPLY FOR PROVISIONAL STUDENTS:

1. Provisional status is granted for one term during which the student has opportunity to demonstrate his capability of doing satisfactory work.

2. Satisfactory progress is required for continuation past one term. This means that the student must have raised his cumulative GPA to the minimum requirement or at least have made sufficient progress that his advisor and the Academic Committee can recommend a continuation of provisional status for another term.

3. A study schedule signed by the student and his advisor must be submitted to the Academic Committee by the end of the first week of classes.

4. Use of the tutoring program is required. The tutor may be a student assistant, department major, or a teacher approved by the department. A charge, equivalent to the tuition for one term hour, will be made by the business office, and ninety percent of the fee will be paid to the

tutor at the end of the term. The tutor is expected to meet weekly for one hour or twice weekly for one-half hour with the student. (A tutor must limit himself to a maximum of three students at the same tutoring session.)

5. Withdrawal from college for one term will be required if the provisional student does not make satisfactory progress as outlined above (the summer months, in this instance, *not constituting* a term). Any appeals from dismissal must be submitted in writing to the faculty.

6. After one or more terms have elapsed following dismissal for academic reasons, a student may petition the Academic Committee for readmission. A letter specifying how the student plans to improve his study program must accompany the petition. The student, if readmitted, will reenter on provisional status and must show satisfactory progress as defined above to be allowed to continue longer than one term.

7. Any student academically dismissed from another college or university will not be considered for admission to George Fox College until a period of one term has elapsed since his dismissal (in this case, the summer months *being considered* as one term).

## **Students Given Academic Warning**

Any student whose GPA for a given term falls below the cumulative GPA requirement stipulated will be notified by the Academic Committee that his progress is unsatisfactory. He may be required to arrange for tutoring or make other adjustments required of provisional students. The student's advisor is expected to initiate remedial action and report the same to the Academic Committee by the end of the second week of the new term.

## **TRANSFER STUDENTS**

Students from other educational institutions may be entitled to advanced standing upon the presentation of official transcripts showing in detail the kind and amount of work done. Students transferring from other schools are expected to furnish a certificate of dismissal in good standing both in scholarship and character.

Upon transfer, George Fox College evaluates credits earned at other institutions in light of their application to the student's chosen major. The college undertakes to make a just and careful evaluation of all credits presented for advanced standing.

Students who hold the Associated Arts degree or a certificate of completion from an accredited junior college will be admitted with junior standing and credited with completion of all lower division requirements. (Courses which are prerequisite to upper division courses in the major and courses required in the elementary joint-degree program are exceptions to the above provision.)

A maximum of sixty term hours of Bible and Christian education may be transferred to apply on a Bachelor's degree in a major other than Bible and Christian education.

Approved correspondence work not exceeding thirty term hours may be applied toward a degree program.

A maximum of forty-five term hours will be granted toward a Bachelor's degree to any nurse who has the R.N. degree.

Of the total number of term hours required for graduation at least

forty-five must be taken in residence; a minimum of twenty-three term hours must be upper division courses (the exception is those in the joint-degree program in elementary education).

## **CLASS ATTENDANCE**

The responsibility rests with the student to maintain good standards involving satisfactory scholarship. Regular class attendance is expected of each student in all courses. Work lost because of absence may be made up only in the case of prolonged or confining illness, death of relatives, or similar emergencies. Permission for absences from class for participation in cocurricular college activities must be granted by the dean of faculty.

## **ACADEMIC LOAD**

The student's load will be determined in conference with his advisor. Ordinarily, the first term freshman will register for no more than sixteen term hours. Provisional students will be limited according to the regulations above.

## **OUTSIDE EMPLOYMENT**

The following is suggested as a satisfactory relationship between the student's academic load and his work, on or off campus.

Work	Academic load
Not more than 18 hours	15-17 term hours
Not more than 25 hours	12-14 term hours
Not more than 30 hours	10-12 term hours

## **CHANGES OF PROGRAM**

### **Course Change**

Late admission to classes because of registration changes made after Monday of the second week of classes must be by petition to the registrar, consent of the professor involved, and payment of a \$3 fee.

### **Withdrawals**

1. Withdrawal from class. A student who wishes to withdraw from a course must secure a change-of-course form from the registrar's office, which is to be approved by the advisor, the instructor involved, the registrar, and the bursar. If a course is dropped without permission, the student will receive an "F" grade.

2. Withdrawal from college. A student should realize that discontinuance of attendance does not constitute a withdrawal. He is required to inform the registrar of his intention to withdraw from the college and to fill out the withdrawal forms furnished by the office. Unless this is done, the student may forfeit his right to a clear transcript of credits and honorable dismissal. This refers to withdrawal from college during a term, not at the end of a term.

3. Return after withdrawal. A student who returns to the college after an interruption of less than two years may continue on to graduation



## Lower Division Requirements

A general education examination, such as the General Culture Test, is required toward the close of the sophomore year. Specific requirements are as follows:

1. GS 100 Introduction to College, 1 term hour; must be taken during the freshman year.

2. GS 107, 108 Survey of Music, 2 term hours; is not required of music majors or joint-degree students. GS 117, 118 Survey of Art, 2 term hours may be elected instead of GS 107, 108, 109 Survey of Music.

3. Eng 111, 112, 113 English Composition. Students judged low in English must enroll in Eng 117, 118, 119, meeting 5 times per week for 3 hours of credit.

4. PE 105 (men) or 115 (women) Physical Education, 6 term hours. Other hours may be taken as electives.

5. GS 101, 102, 103 Literature of the Bible, 9 term hours.

6. Sp 210 Fundamentals of Speech, 4 term hours (recommended for students with no previous training in speech). May be satisfied by Sp 110 Voice and Diction, 2 term hours, plus Sp 220 Essentials of Discussion, 2 term hours; or either Sp 110 Voice and Diction or Sp 220 Essentials of Discussion plus a minimum of 2 term hours of Drama to be elected from Dr 120 Fundamentals of Acting, Dr 125/325 Theater Laboratory, or Dr 331, 332, 333 Play Production. Note: Sp 230 Oral Interpretation (4 term hours) may be substituted for either Sp 110 Voice and Diction or Sp 220 Essentials of Discussion.

7. Group Requirements: One sequence is required from each of the three groups representing comprehensive fields of knowledge in language arts, social science, and science. Courses which satisfy these requirements are:

### GROUP A—LANGUAGE ARTS GROUP

Eng 201, 202, 203 English Literature

Eng 251, 252, 253 Masterpieces of World Literature

### GROUP B—SOCIAL SCIENCE GROUP

Hst 101, 102, 103 Civilizations

Hst 201, 202, 203 United States History

Eco 201, 202, 203 Principles of Economics

Soc 201, 202 Principles of Sociology and Soc 203 Social Problems

Psy 201 General Psychology and Psy 202 Personality

Phl 210 Introduction to Philosophy, Phl 220 Logic, and Phl 230 Ethics

### GROUP C—SCIENCE GROUP

Bi 101, 102, 103 General Biology

Ch 111, 112, 113 General Chemistry

GSc 101, 102, 103 Foundations of Science Sequence

Ph 201, 202, 203 General Physics

8. Foreign Language Requirement: A minimum of two years of college work in a single language or its equivalent is required of all students earning the Bachelor of Arts degree. This does not apply to those earning the Bachelor of Science degree. A student entering with high school credit in a foreign language may take a placement test to determine if he is capable of entering an advanced course in the language. Any student able to enter

a course other than the beginning one must not postpone continuing the language, but register for it at once. If postponed, he must take the test again immediately before registering for the advanced language course, and, if necessary, retake the beginning course.

9. International students whose first language is other than English may satisfy the foreign language requirement by taking twenty-four hours of additional work in English as directed by the English department.

## **Upper Division Requirements**

1. The completion of at least sixty-three upper division hours (courses numbered 300 and above).

2. The earning of at least forty-five term hours in residence.

3. Religion: Six to nine hours selected from courses prefixed "R" and marked with asterisks, including for Friends students, R 381 History of Friends, or R 382 Doctrine of Friends. Selection is determined as follows: six hours is required for all students who have taken GS 101, 102, 103 Literature of the Bible or an equivalent survey course; nine hours is required for all students transferring to George Fox College with junior standing who have not taken such a survey course (five to six of the nine hours must be selected from the Bible courses offered).

4. Comprehensive examination may be required during the senior year.

5. Major subject: Not later than the beginning of the junior year the student should choose a major field. The major consists of from thirty-nine to sixty-three term hours, which must be passed with a grade-point average of 2.00 or higher. No "D" grade in upper division courses will be accepted for upper division major requirements. The student should seek the advice of his major professor in selecting the optional subjects applicable to the major.

## **MAJOR SUBJECTS**

A major may be selected from the fields listed below; specific requirements for each major are given on the pages indicated.

### **Education**

Elementary Teaching Major, joint-degree, page 33; Health and Physical Education, page 43; Secondary Teaching Majors, page 36.

### **Fine and Applied Arts**

Home Economics, page 48; Music, page 50.

### **Language Arts**

Drama, page 55; Literature, page 59; Spanish, page 61; Speech Arts, page 62.

### **Natural Sciences**

Biology, page 65; Chemistry, page 68; Mathematics, page 70.

## COURSE NUMBERING SYSTEM

Course numbers ending in zero (e.g. Ed 300) designate courses which are complete in one term; they may be scheduled for any term during the college year.

Course numbers ending in five (e.g. PE 105) designate courses which may be pursued for several terms under the same number, with all credits applicable, within stipulated limits.

Course numbers ending in one, two, and three, or seven, eight, and nine (e.g. Eng 111, 112, 113 or Eng 117, 118, 119) designate courses offered throughout the year. A continuing course may not be entered in the second or third terms without completing the previous term(s) or obtaining the permission of the instructor.

Course number 490 designates a Senior Seminar that is completed in one term; numbers 491, 492, 493 designate a Senior Seminar given each term.





# **Division I Education**

Chairman: David V. Myton

Harold Ankeny, David Berg, Paul Cammack, Robert Gilmore, Myrtle Hamilton, Fran Howard, Jerry Louthan, Sheldon Louthan, George Moore, James Stanley, Marjorie Weesner

## **Basic Objectives**

1. To coordinate the resources of the college in providing a broad general education with academic specialization for the prospective teacher.

2. To provide professional preparation that develops in students the understandings, skills, and attitudes needed for a career in teaching at the elementary and secondary levels.

3. To provide instruction which fosters physical development of students and enhances the use of leisure time.

## **TEACHER EDUCATION**

George Fox College is approved by the Oregon State System of Higher Education for the training of elementary teachers in conjunction with the Oregon College of Education. It is also accredited by the Oregon State Board of Education for the training of secondary teachers in specific fields. These programs lead to Oregon Basic Teaching Certificates, which are issued by the State Superintendent of Public Instruction upon recommendation of the teacher education institution.

## **Admission to Teacher Education**

Admission to George Fox College does not guarantee admission to the teacher education program. A student applies for admission to teacher education during, or prior to, the third term of the sophomore year. Admission to the program is based upon ability to meet the following criteria:

1. Completion of the lower division general education requirements or the presentation of an acceptable plan for their completion.
2. Satisfactory completion of proficiency tests in writing and speech. Opportunity to take these tests is given each term.
3. Attainment of satisfactory scholastic level as indicated by a minimum cumulative GPA of 2.20 for the secondary teaching fields or 2.00 for the elementary joint-degree program.
4. Recommendations of three college faculty members acquainted with the candidate and his potential capabilities for teaching.
5. Satisfactory physical health.
6. Satisfactory mental health.
7. Exemplary social and moral behavior.
8. Satisfactory interview with the director of teacher education.

Students may not register for professional education courses until they have been admitted to the program or secured permission from the education department.

## **Conditional Admission to Teacher Education**

Conditional admission may be granted to a student who fails one of the screening tests, but who otherwise on the basis of general scholastic achievement, personal traits, health, and overall potentialities for teaching would qualify for admission. He may be permitted to enroll in professional education courses, but he must retake the test he failed at the earliest opportunity. A maximum of three attempts to pass a given test will be allowed; however, failure to pass on the third attempt will result in loss of conditional status and elimination from the teacher education program.

Conditional admission may be granted also to transfer students (See statement below).

## **Transfer Students in Education**

Any student transferring to the teacher education program must meet the same requirements for admission as those who have entered at the usual point. For secondary teaching fields, work at George Fox College must include Ed 440 Teaching of . . . (Special Methods) and Ed 450 Supervised Teaching. A minimum of forty-five term hours must be taken in residence at George Fox College for either the elementary or secondary programs.

A student transferring from a nonaccredited college to the secondary program of teacher education will be granted only conditional admission to the program until he demonstrates his ability by completing twelve term hours in his first teaching field and/or professional education with an average GPA of 2.50. Courses taken at nonaccredited colleges cannot be applied toward the elementary joint-degree program.

## **Admission to Supervised Teaching**

Acceptance into the teacher education program does not guarantee assignment for supervised teaching. Application must be made for admission to supervised teaching by filing forms obtained from the education office not later than the first week of the term preceding the quarter for which the assignment is requested. Admission to supervised teaching is based upon ability to meet the following criteria:

1. Full admission to teacher education.
2. Attainment of a minimum cumulative GPA of 2.30 and an average GPA of 2.50 in the teaching major. (Courses in which "D" grades were earned may not be counted toward completion of the teaching major.)
3. Completion of the required professional education courses with no grade less than "C."
4. A minimum of thirty term hours completed in residence. Any transfer student with previous work in education who desires to be admitted for supervised teaching may be required to furnish a statement of eligibility from the department of education in the institution from which he transferred.

## **Application for Teaching Certificate**

All Oregon teaching certificates are issued by the Superintendent of Public Instruction in the State Department of Education, Salem, Oregon. To be eligible, an applicant (1) shall have attained the age of eighteen years; (2) shall furnish satisfactory evidence of proper educational preparation; (3) shall furnish satisfactory evidence of United States citizenship; and (4) shall, if the Superintendent of Public Instruction requires such, furnish satisfactory evidence of good moral character, mental and physical health, and such other evidence as may be deemed necessary to establish the fitness of such applicant to serve as a teacher.

Application is made by submitting to the State Department of Education, Salem, Oregon, the required form, which is available in the college education office; an official transcript of college credits, which is obtained from the registrar's office; and the required \$8 fee for the certificate.

## **ELEMENTARY TEACHING MAJOR (JOINT-DEGREE PROGRAM)**

Students who are admitted to teacher education and have completed satisfactorily the following course of study at George Fox College may transfer to Oregon College of Education at Monmouth, Oregon, for their senior year of professional training in elementary education. They receive the Bachelor of Science degree (or Bachelor of Arts degree with two years of foreign language) from George Fox College upon the successful completion of the four-year program and are recommended to the Oregon State Board of Education for the Basic Teaching Certificate by Oregon College of Education. Courses listed below that are indicated by one asterisk (\*) are taken at Oregon College of Education during the senior year. Courses that are indicated by two asterisks (\*\*) must be taken at Oregon College of Education or another accredited college in addition to the senior year.



## General Education Requirements

### HUMANITIES

Eng 111, 112, 113 English Composition	9
Eng 201, 202, 203/251, 252, 253 English or World Literature	9
Sp 210 Fundamentals of Speech	4
<b>Total</b>	<b>22</b>

### SOCIAL SCIENCE

Hst 101, 102, 103 Civilizations	9
Geo 101 and 102 or 103	
Introduction to Geography	6
Hst 330 Pacific Northwest	3
<b>Total</b>	<b>18</b>

### SCIENCE

Bi 101, 102, 103 General Biology	12
GSc 101, 102, 103 Foundations of Science Sequence	12
<b>Total</b>	<b>24</b>

### MATHEMATICS

Mth 111, 112, 113 Essentials of Mathematics	9
(OCE) Mth 311 or 312 Mathematics for Elementary Teachers*	3
<b>Total</b>	<b>12</b>

### ART

AA 311, 312 Creative Arts and Crafts	6
<b>Total</b>	<b>6</b>

### MUSIC

Mus 111, 112, 113 Music Fundamentals	6
<b>Total</b>	<b>6</b>

### PHYSICAL EDUCATION

PE 105/115 Physical Education Activity Courses	6
<b>Total</b>	<b>6</b>

### PSYCHOLOGY

Psy 201 General Psychology	4
Psy 310 Human Growth and Development	3
Psy 330 Developmental Psychology	3
Psy 350 Social Psychology	3
<b>Total</b>	<b>13</b>

### GENERAL STUDIES

GS 101, 102, 103 Literature of the Bible	9
GS 100 Introduction to College	1
<b>Total</b>	<b>10</b>

## Professional Teacher Education Requirement

Ed 310 Historical Foundations of Education	4
HE 310 School Health Programs (OCE) Ed 361, 362 Learning and Instruction in the Elementary School*	18
(OCE) Eng 485 or 489 Children's Literature or Literature for Adolescents*	3
(OCE) A 323, Mus 383, Ed 344 Specialized Methods in Art, Music, and Physical Education*	9
(OCE) Ed 411, 413 Student Teaching and Seminar*	15
<b>Total</b>	<b>52</b>

## Minor Requirements

At least one minor of thirty-six term hours (which may include the general education hours outlined above in the selected field) must be completed from the following:

### ART

(OCE) A 127 Art Appreciation**	3
AA 311, 312 Creative Arts and Crafts	6
AA 201, 202, 203 Ceramics (OCE) A 220, 221, 226 Drawing and Composition**	6
(OCE) A 222, 228, 229 Design**	6
(OCE) A 223, 224 Printmaking**	3
(OCE) Upper Division Electives**	6
<b>Total</b>	<b>36</b>

### FOREIGN LANGUAGE—

#### FRENCH

Fr 101, 102, 103 First-year French	12
Fr 201, 202, 203 Second-year French	12
(OCE) RL 314, 315, 316 Intermediate French Composition and Conversation**	9
(OCE) RL 331 French Pronunciation and Phonetics**	3
<b>Total</b>	<b>36</b>

## FOREIGN LANGUAGE—

### SPANISH

Spn 101, 102, 103 First-year Spanish	12
Spn 201, 202, 203 Second-year Spanish	12
Spn 301, 302, 303 Spanish Composition and Conversation	9
Spn 311 or 312 Spanish Pronunciation and Phonetics	3
Spn 400 Hispanic Culture and Civilization	3
Total	39

### HUMANITIES

Eng 111, 112, 113 English Composition	9
Eng 201, 202, 203/251, 252, 253 English or World Literature	9
Sp 210 Fundamentals of Speech	4
Eng 300 Advanced Composition	3
Eng 340 English Language Development	3
Approved humanities electives	9
Total	37

### MATHEMATICS

Mth 111, 112, 113 Essentials of Mathematics	9
Psy 340 Statistical Procedures	3
Mth 121 College Algebra	4
Mth 122, 123 Calculus with Analytic Geometry	8
Mth 210 Computer Coding	3
Mth 440 Teaching of Mathematics	3
(OCE) Mth 311 Mathematics for Elementary Teachers*	3
(OCE) Mth 312 Mathematics for Elementary Teachers**	3
Total	36

### MUSIC

Mus 121, 122, 123 Theory I (Exempt Mus 111, 112, 113)	12
Mus 117, 118, 119 Introduction to Music Literature	6
Mus 441, 442, 443 Public School Music Methods	7
Mus 201, 202, 203 Elementary Conducting	3
Mus ..... Band (3), Orchestra (3) or Choir (3)	3
Mus 105/405 Private Instruction	1
Mus 131, 132, 133 Class Piano	3
Mus 210, 230, 250, 260 String, Woodwind, Brass, Percussion Techniques	3
Total	38

## PHYSICAL EDUCATION

### Activity Courses for Men

PE 105 International Folk Rhythms	1
PE 105 Modern Rhythms (OCE) PE ..... Rhythms**	1
PE 212 Professional Activities (Gymnastics and Tumbling)	3
PE 105 Swimming	1
PE 205 Life Saving	1
PE 213 Professional Activities (Individual and Dual Sports)	3
PE 105 Badminton, bowling, tennis, weight training, track and field, wrestling	2
PE 211 Professional Activities (Team Sports)	3
PE 105 Football, basketball, volleyball, softball	2
Total	18

### Activity Courses for Women

PE 115 International Folk Rhythms	1
PE 115 Modern Rhythms	1
PE 115 Rhythmic Gymnastics	1
PE 212 Professional Activities (Gymnastics and Tumbling)	3
PE 115 Swimming	1
PE 205 Life Saving	1
PE 213 Professional Activities (Individual and Dual Sports)	3
PE 115 Archery, badminton, bowling, field sports, golf, track	2
PE 211 Professional Activities (Team Sports)	3
PE 115 Recreational games, softball, volleyball, soccer, basketball	2
Total	18

### Theory Courses

PE 230 First Aid	3
PE 440 Teaching of Physical Education	5
PE 200 History and Principles of Physical Education	3
PE 220 Philosophy of Physical Education	2
PE 330 Organization and Administration of Health and Physical Education	3
Bi 331 or 332 General Physiology	3
PE 410, 420, 450, or 460 Coaching Football, Basketball, Baseball, or Track and Field	4
Total	41

## SCIENCE

Bi 101, 102, 103 General Biology	12
GSc 101, 102, 103 Foundations of Science Sequence	12
GSc 310, 320, 330 Earth Science Sequence	9
(OCE) GS 441 Natural History**	3
Total	<u>36</u>

## SOCIAL SCIENCE

Hst 330 Pacific Northwest	3
Hst 201, 202, 203 United States	9
Hst 101, 102, 103 Civilizations	9
Geo 101, 102, 103 Introduction to Geography	9
Electives from political science, sociology, anthropology, economics or history	6
Total	<u>36</u>

## SECONDARY TEACHER EDUCATION

Under Oregon school law, five years of collegiate preparation including specified work in education and in subject fields is required for a standard teaching certificate. However, graduates of accredited colleges and universities who have completed an approved four-year teacher education program may, upon graduation, be granted a basic certificate, which is valid for three years. For renewal of the basic certificate after three years, twenty-four term hours of work toward the completion of the fifth-year program are required.

Requirements for the four-year teacher education program follow:

### GENERAL REQUIREMENTS

Lower division requirements for the B.S. Degree	61
(Option in mathematics, biology, music, health, and physical education)	
Lower division requirements for the B.A. Degree	85
(Required in language arts and social studies)	
Psy 201 General Psychology	4
(Required in addition to another lower division social science sequence)	
R ..... Upper division religion	6
Total for B.S. Degree	<u>71</u>
Total for B.A. Degree	<u>95</u>

### PROFESSIONAL EDUCATION REQUIREMENTS

Ed 310 Historical Foundations of Education	4
Ed 320 Psychological Foundations of Education	4
Ed 330 Principles of Secondary Education	2
Ed 350 Instructional Media	2
Psy 330 Developmental Psychology	3
Ed 420 September Participation	0
Ed 440 Teaching of . . . (Special Methods) (3-7 hours are listed and counted as part of the major requirement)	
Ed 450 Supervised Teaching	15
Total	<u>30</u>

## SECONDARY TEACHING MAJORS

First teaching fields are subject majors consisting of fifty-five to seventy-five term hours, exclusive of courses taken to satisfy lower division requirements. In addition, students are encouraged to meet the requirements for one of the second fields listed as teaching minors on pages 39-40. A minimum of 189 term hours must be completed for graduation.

Teaching majors indicated by an asterisk (\*) have been approved by the Oregon State Department of Education and lead to the Basic Teaching Certificate.



**Biology Teaching Major\***

REQUIRED COURSES THAT  
MAY SIMULTANEOUSLY  
SATISFY LOWER DIVISION  
REQUIREMENTS:

Bi 101, 102, 103 General  
Biology 12

OTHER REQUIRED COURSES:

Bi 311, 312 Plant Morphology 10  
Bi 310 Embryology 4  
Bi 320 Human Anatomy or  
Bi 321 or 322 Comparative  
Vertebrate Anatomy 4-5  
Bi 331 or 332 Physiology or  
Bi 340 Plant Physiology 3-5  
Bi 350 Genetics 3  
Bi 360 Ecology 4  
Bi 430 Evolution 3  
Bi 440 Teaching of Biology 3  
Bi 491, 492, 493 Senior Seminar 3  
Ch 111, 112, 113 General  
Chemistry 12  
Mth 121 College Algebra 4  
Bi ..... Upper division elective  
in biology 0-2  
Total 65-70

**Health and  
Physical Education  
Teaching Major\***

REQUIRED COURSES THAT  
MAY SIMULTANEOUSLY  
SATISFY LOWER DIVISION  
REQUIREMENTS:

Bi 101, 102, 103 General  
Biology 12  
PE 105/115 Rhythms 1  
PE 115 Body Mechanics (W) or  
PE 105 Weight Training and  
Conditioning (M) 1  
PE 105/115 Elective activities 4

OTHER REQUIRED COURSES:

PE 320 Human Anatomy 5  
PE 331, 332 General Physiology 6  
HE 100 Health Education 2  
HE 200 Personal Health  
Problems 2  
HE 310 School Health Programs 3  
PE 200 History and Principles  
of Physical Education 3  
PE 205/215 Life Saving 1  
PE 211, 212, 213 Professional  
Activities 9

PE 220 Philosophy of Physical  
Education 2  
PE 230 Safety and First Aid 3  
PE 440 Teaching of Physical  
Education 5  
PE 330 Organization and  
Administration of Physical  
Education 3  
Upper division electives in health  
and physical education 19  
Total 81

**Language Arts  
Teaching Major**

REQUIRED COURSES THAT  
MAY SIMULTANEOUSLY  
SATISFY LOWER DIVISION  
REQUIREMENTS:

Eng 111, 112, 113 English  
Composition 9  
Eng 251, 252, 253 World  
Literature 9  
Sp 210 Fundamentals of Speech 4

OTHER REQUIRED COURSES:

Eng 300 Advanced Composition 3  
Eng 320 18th Century Literature 3  
Eng 311, 312, 313 American  
Literature 6  
Eng 301, 302, 303 English  
Literature 9  
Eng 340 English Language  
Development 3  
Eng 460 Teaching  
Developmental Reading 3  
Eng 330 Versification 3  
Eng 350 Milton 3  
Eng 370 Chaucer 3  
Eng 381, 382, 383 Shakespeare 9  
Eng 390 Spenser 3  
Eng 491, 492, 493 Senior Thesis 3  
L 300 Linguistics 3  
Eng 440 Teaching of English 3  
Eng ..... Upper division elective  
period courses in literature 6  
Total 85

**Advanced Mathematics  
Teaching Major\***

REQUIRED COURSES THAT  
MAY SIMULTANEOUSLY  
SATISFY LOWER DIVISION  
REQUIREMENTS:

Ph 201, 202, 203 General  
Physics 12

**OTHER REQUIRED COURSES:**

Mth 121 College Algebra	4
Mth 122, 123 Calculus with Analytic Geometry	8
Mth 201, 202 Multivariable Calculus	8
Mth 321, 322 Higher Algebra	6
Mth 331 Probability and Statistics	3
Mth 411, 412 Modern Geometry	6
Mth 440 Teaching of Mathematics	3
Mth ..... Upper division electives in mathematics	17
Total	<u>67</u>

**Music Teaching Major****REQUIRED COURSES:**

Mus 117, 118, 119 Introduction to Music Literature	6
Mus 121, 122, 123 Theory I	12
Mus 201, 202, 203 Elementary Conducting	3
Mus 221, 222, 223 Theory II	12
Mus 301, 302, 303 Music History	9
Mus 320 Form and Analysis	3
Mus 410 Instrumentation and Orchestration	3
Mus 420 Composition or Mus 310 Counterpoint	3
Mus 430 Instrumental Conducting or Mus 450 Choral Conducting	2
Mus 441, 442, 443 Public School Music Methods	7
Mus 210, 230, 250, 260, 270 Techniques (or equivalence) 2 years of private lessons ( $\frac{1}{2}$ recital)	5
Mus ..... Large ensemble (every term)	6
A piano proficiency test must be passed.	3-6
Total	<u>72-75</u>

**Physical Science—  
General Science  
Teaching Major****REQUIRED COURSES THAT  
MAY SIMULTANEOUSLY  
SATISFY LOWER DIVISION  
REQUIREMENTS:**

Bi 101, 102, 103 General Biology	12
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**OTHER REQUIRED COURSES:**

Ch 111, 112, 113 General Chemistry	12
Ph 201, 202, 203 General Physics	12
Mth 121 College Algebra	4
Mth 122 Calculus with Analytic Geometry	4
GSc 310 Essentials of Geology	3
GSc 320 Essentials of Meteorology	3
GSc 330 Essentials of Astronomy	3
GSc 440 Teaching of Science	3
Upper division electives in science	12
Total	<u>68</u>

**Social Studies  
Teaching Major****REQUIRED COURSES THAT  
MAY SIMULTANEOUSLY  
SATISFY LOWER DIVISION  
REQUIREMENTS:**

Hst 101, 102, 103 Civilizations	9
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**OTHER REQUIRED COURSES:**

Hst 201, 202, 203 United States Geo 101, 102, 103 Introduction to Geography	9
Eco 201, 202, 203 Principles of Economics	9
PSc 211, 212 American Government	6
Soc 201, 202 Principles of Sociology or Soc 301, 302 Cultural Anthropology	6
SS 490 Social Science Seminar	3
SS 440 Teaching Social Studies	3
Upper division electives in social science	24
(must include at least 12 term hours plus the Senior Seminar in one of the fields)	
Total	<u>78</u>

## SECONDARY TEACHING MINORS

The actual number of additional term hours required to complete an optional second teaching field varies according to the selection of courses to meet the lower division requirements and the choice of the first teaching field. Students seeking certification in one of the teaching minors must also complete an approved teaching major (see above).

Teaching minors indicated by an asterisk (\*) have been approved by the Oregon State Department of Education and lead to the Basic Teaching Certificate.

### Biology Teaching Minor\*

#### REQUIRED COURSES THAT MAY SIMULTANEOUSLY SATISFY LOWER DIVISION REQUIREMENTS:

Bi 101, 102, 103 General Biology 12

#### OTHER REQUIRED COURSES:

Bi 310 Embryology	4
Bi 320 Human Anatomy or	
Bi 321 or 322 Comparative	
Vertebrate Anatomy	4-5
Bi 331 or 332 Physiology or	
Bi 340 Plant Physiology	3-5
Bi 350 Genetics	3
Bi 360 Ecology	4
Bi 430 Evolution	3
Bi 440 Teaching of Biology	3
Bi ..... Elective in biology	3
Total	39-42

### Health and Physical Education Teaching Minor\*

#### REQUIRED COURSES THAT MAY SIMULTANEOUSLY SATISFY LOWER DIVISION REQUIREMENTS:

PE 105/115 Rhythms	1
PE 115 Body Mechanics (W) or	
PE 105 Weight Training and	
Conditioning (M)	1
PE 105/115 Elective activities	4

#### OTHER REQUIRED COURSES:

PE 320 Human Anatomy	5
PE 331, 332 General Physiology	6
HE 100 Health Education	2
HE 200 Personal Health Problems	2

HE 210 Community Health Problems	2
HE 310 School Health Programs	3
PE 200 History and Principles of Physical Education	3
PE 205/215 Life Saving	1
PE 211, 212, 213 Professional Activities	9
PE 220 Philosophy of Physical Education	2
PE 230 Safety and First Aid	3
PE 330 Organization and Administration of Physical Education	3
PE 440 Teaching of Physical Education	5
Total	52

### Language Arts Teaching Minor

#### REQUIRED COURSES THAT MAY SIMULTANEOUSLY SATISFY LOWER DIVISION REQUIREMENTS:

Eng 111, 112, 113 English Composition	9
Eng 251, 252, 253 World Literature	9
Sp 210 Fundamentals of Speech	4

#### OTHER REQUIRED COURSES:

Eng 300 Advanced Composition	3
Eng 320 18th Century Literature	3
Eng 311, 312 American Literature	6
Eng 301, 302, 303 English Literature	9
Eng 340 English Language Development	3
Eng 460 Teaching Developmental Reading	3
Eng 440 Teaching of English	3
Upper division electives	



selected from L 300 Linguistics,  
Eng 330 Versification, Eng 350  
Milton, Eng 370 Chaucer, Eng  
381, 382, 383 Shakespeare, Eng  
390 Spenser

Total 6  
58

### **Elementary Algebra and Geometry Teaching Minor\***

#### **REQUIRED COURSES:**

Mth 121 College Algebra	4
Mth 122, 123 Calculus with Analytic Geometry	8
Mth 201, 202 Multivariable Calculus	8
Mth 321, 322 Higher Algebra	6
Mth 441 Modern Geometry	3
Mth 440 Teaching of Mathematics	3
<b>Total</b>	<b>32</b>

### **Pre-Algebra and General Mathematics Teaching Minor\***

#### **REQUIRED COURSES:**

Mth 121 College Algebra	4
Mth 122, 123 Calculus with Analytic Geometry	8
Mth 440 Teaching of Mathematics	3
<b>Total</b>	<b>15</b>

### **Music Teaching Minor**

#### **REQUIRED COURSES:**

Mus 117, 118, 119 Introduction to Music Literature	6
Mus 121, 122, 123 Music Theory I	12
Mus 201, 202, 203 Elementary Conducting	3
Mus 221, 222, 223 Music Theory II	12
Mus 301, 302, 303 Music History	9
Mus 441, 442, 443 Public School Music Methods	7
Mus ..... Large ensemble	3-6
Mus ..... Two years of private lessons	6
A piano proficiency test must be passed.	
<b>Total</b>	<b>58-61</b>

### **Physical Science— General Science Teaching Minor**

#### **REQUIRED COURSES THAT MAY SIMULTANEOUSLY SATISFY LOWER DIVISION REQUIREMENTS:**

Bi 101, 102, 103 General Biology	12
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#### **OTHER REQUIRED COURSES:**

Ch 111, 112, 113 General Chemistry	12
Ph 201, 202, 203 General Physics	12
GSc 310, 320, 330 Essentials of Geology, Meteorology, Astronomy	9
GSc 440 Teaching of Science	3
<b>Total</b>	<b>48</b>

### **Social Studies Teaching Minor**

#### **REQUIRED COURSES THAT MAY SIMULTANEOUSLY SATISFY LOWER DIVISION REQUIREMENTS:**

Hst 101, 102, 103 Civilizations	9
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#### **OTHER REQUIRED COURSES:**

Hst 201, 202, 203 United States Geo 101, 102, 103 Introduction to Geography	9
PSc 211, 212 American Government	6
Eco 201, 202, 203 Principles of Economics	9
Soc 201, 202 Principles of Sociology or Soc 301, 302 Cultural Anthropology	6
Upper division electives in social science	9
SS 440 Teaching of Social Studies	3
<b>Total</b>	<b>60</b>

# EDUCATION

## Lower Division

### GS 100 INTRODUCTION TO COLLEGE

1 hour. Required of all freshmen. This course deals with budget of time, use of library, methods of study, improvement of reading, consideration of careers, and other matters of importance to a beginning college student.

## Upper Division

### Ed 310 HISTORICAL FOUNDATIONS OF EDUCATION

4 hours, fall term. Intended to introduce the heritage of American educational concepts, practices, and organization in order to develop understanding of the purpose and function of the school in the democratic society.

### Ed 320 PSYCHOLOGICAL FOUNDATIONS OF EDUCATION

4 hours, winter term. A study of psychological basis of learning processes including individual and group differences. Intended to relate the student's understanding of factors affecting learning, thinking, memory, transfer of training, use of learning experiences, learning climate, and other pertinent factors to modern classroom practices. Identical with Psy 320. Prerequisite: Psy 201 General Psychology; Psy 330 Developmental Psychology; or permission of the instructor.

### Ed 330 PRINCIPLES OF SECONDARY EDUCATION

2 hours, spring term. A study of general principles of education methodology. Designed to develop competency in setting learning goals, planning teaching units, managing classroom activities, reporting pupil progress, and other related tasks. Prerequisite: Admission to the teacher education program, Ed 310 Historical Foundations of Education, or permission of the instructor.

### Ed 350 INSTRUCTIONAL MEDIA

2 hours, spring term. Designed to prepare the prospective teacher as well as the professional in many other fields to select, produce, and use instructional media such as pictures, posters, bulletin boards, transparencies, slides, recordings, films, television, and programmed instruction to implement learning. Two lectures and one laboratory period per week. Identical with CED 350.

### Ed 410 GUIDANCE AND COUNSELING

5 hours. Identical with Psy 410. See Division VI for description of course and prerequisite.

### Ed 420 SEPTEMBER PARTICIPATION

0 hours. A two-week period of observation in the home high school of the teacher education candidate at the opening of the senior year. Intended to provide a laboratory experience immediately prior to the senior sequence of professional education courses. Admission by application only.

### Ed 440 TEACHING OF . . . (SPECIAL METHODS)

3 hours, winter term. A course in the special methods of instruction appropriate to the particular teaching major or minor emphasizing proce-

dures, teaching techniques, and materials. Identical with Eng 440, Bi 440, Mth 440. Prerequisite: Ed 330 Principles of Secondary Education.

#### **Ed 450 SUPERVISED TEACHING**

15 hours, spring term. A laboratory experience in which principles and methods of teaching may be employed under supervision. A full day, full term assignment; the only campus responsibility is a weekly seminar session conducted by the college supervisor. Admission by application only.

#### **Ed 460 TEACHING OF DEVELOPMENTAL READING**

3 hours, winter term. A course designed to develop understanding of, and competencies in, a program of pupil progress and growth in reading from kindergarten through grade twelve. Deals with such basic aspects as readiness, skills in diagnosing pupils' needs, the interrelatedness of reading with other language understandings, study skills, reading rate, and comprehension. Identical with Eng 460.

#### **Ed 470 THE JUNIOR HIGH SCHOOL**

3 hours, spring term. Offered 1969-70 and alternate years. The history, philosophy, curriculum, and rationale for the Junior High School in the American educational scheme. Also takes a look at the adolescent and his needs—suggests some ways of meeting these needs. Required for the Junior High School Certificate.

## **HEALTH EDUCATION**

### **Lower Division**

#### **HE 100 HEALTH EDUCATION**

2 hours. The basic scientific principles of healthful living applied to problems confronting the college student. Emphasis on mental health, family life, degenerative diseases, nutrition, and hygienic care of the body.

#### **HE 200 PERSONAL HEALTH PROBLEMS**

2 hours. Designed for teachers in the public schools. A study of health problems with emphasis on observation and recognition of deviations in student health. Includes a discussion of prevention and control of communicable diseases.

#### **HE 210 COMMUNITY HEALTH PROBLEMS**

2 hours. Designed primarily for health teachers in public schools. A study of basic community health problems important in public school health instruction.

### **Upper Division**

#### **HE 300 NUTRITION**

4 hours. Identical with HEc 200/300. See Division II for description of course and prerequisites.

#### **HE 310 THE SCHOOL HEALTH PROGRAM**

3 hours. Offered 1969-70 and alternate years. Purposes and procedures of health service and instruction in the schools. Special emphasis on construction of health teaching units and selection of methods and materials.



# PHYSICAL EDUCATION

## General Requirements in Physical Education

Six hours in physical education activity courses are required for graduation. These may be selected from PE 105 (men) or PE 115 (women). PE 125 (men) or PE 135 (women) Adapted Activities are offered to meet the requirement for those who cannot participate in the 105 or 115 sections because of physical limitations.

## Major Requirements

A student must complete a minimum of sixty-five term hours in health and physical education, thirty-eight of which must be upper division courses, in addition to the six term hours of general physical education required of all students. Bi 101, 102, 103 General Biology; PE 105/115 Rhythms; and PE 115 Body Mechanics or PE 105 Weight Training are required.

## Lower Division

### PE 105 PHYSICAL EDUCATION

1 hour each term. Six hours of credit required of men for graduation. Instruction in fundamental skills, rules, and strategy. Personal selection of one different activity per term from the following: football, basketball, volleyball, softball, wrestling, tumbling, apparatus activities, soccer, badminton, bowling, tennis, swimming, weight training, track and field, and rhythmic activities.

### PE 115 PHYSICAL EDUCATION

1 hour each term. Six hours of credit required of women for graduation. Instruction in fundamental skills, rules, and strategy. Personal selection of one different activity per term from the following: apparatus activity, archery, badminton, basketball, body mechanics, bowling, field sports, golf, recreational games, rhythmic activities, softball, swimming, tennis, track, tumbling, and volleyball.

### PE 125/135 ADAPTED ACTIVITIES

1 hour each term. Six hours of credit required for graduation. Offered for those men (125) and women (135) who are unable to participate in regular physical education activities because of physical limitation. A statement from the student's physician is required.

### PE 200 HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION

3 hours, spring term. Offered 1969-70 and alternate years. A survey of the development of physical education with emphasis upon fundamental principles and modern programs.

### PE 205/215 LIFE SAVING

1 hour, winter term. Instruction in life saving techniques in swimming leading to the American Red Cross certificate.

### PE 211, 212, 213 PROFESSIONAL ACTIVITIES

3 hours each term. Advanced instruction in skills, teaching techniques, rules and strategy for team sports, individual and dual sports, and gymnastics.

#### **PE 220 PHILOSOPHY OF PHYSICAL EDUCATION**

2 hours, spring term. Offered 1970-71 and alternate years. Investigation and evaluation of basic philosophies of physical education and their influence on modern programs.

#### **PE 230 FIRST AID**

3 hours. Offered 1970-71 and alternate years. Instruction in first aid, leading to the standard American Red Cross certificate.

#### **PE 240 RECREATIONAL LEADERSHIP**

3 hours. Offered 1969-70 and alternate years. An application of leadership techniques, methods, and materials to recreational activities for home, school, church, camp, and community.

#### **PE 250 CAMP LEADERSHIP**

3 hours. Offered 1969-70 and alternate years. Instruction in camp leadership emphasizing methods and materials needed in administration of camping programs. Relationship to recreational games and sports is stressed.

### **Upper Division**

#### **PE 300 ORGANIZATION AND ADMINISTRATION OF INTRAMURAL PROGRAMS**

3 hours. Offered 1970-71 and alternate years. A study of the construction of intramural programs including objectives, methods, materials, and typical problems. Laboratory experience in the college intramural program. Prerequisite: PE 330 for nonmajors.

#### **PE 305/315 WATER SAFETY INSTRUCTION**

1 hour, spring term. Offered annually on demand. The study of approved techniques in water safety instruction leading to qualification for the American Red Cross WSI certificate.

#### **PE 320 HUMAN ANATOMY**

5 hours, fall term. Offered 1969-70 and alternate years. A study in detail of the major systems of the human body. Three lectures and two laboratory periods per week. Identical with Bi 320. Prerequisite: Bi 101, 102, 103 General Biology.

#### **PE 330 THE ORGANIZATION AND ADMINISTRATION OF HEALTH AND PHYSICAL EDUCATION**

3 hours. Offered 1970-71 and alternate years. Instruction in the planning and implementing of programs of physical education including: designing the curriculum; budgeting and purchasing; and using buildings, grounds, and recreational areas. Professionalism in conduct and ethics is stressed.

#### **PE 331, 332 PHYSIOLOGY**

3 hours, fall and winter terms. Offered 1970-71 and alternate years. Identical with Bi 331, 332. See Division IV for description of course and prerequisite.

#### **PE 340 STATISTICAL PROCEDURES**

3 hours, fall term. Offered 1970-71 and alternating years. Identical with Psy 340. See Division VI for description of course and prerequisite.

#### **PE 350 THE CARE AND PREVENTION OF ATHLETIC INJURIES**

2 hours. Offered 1970-71 and alternate years. A course dealing with the

prevention of, first aid for, and therapy for athletic injuries. Special attention is given to the organization and management of the training room.

#### **PE 360 KINESIOLOGY**

3 hours, winter term. Offered 1969-70 and alternate years. A detailed study of bone and muscle relationships. A scientific approach to muscle movement related to all physical activities. Prerequisite: PE 320 Human Anatomy.

#### **PE 400 TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION**

3 hours, winter term. Offered 1970-71 and alternate years. Emphasis is given to the importance of evaluation in programs of physical education. Testing procedures, standard tests, physical examinations, and evaluation activities are discussed. Prerequisite: PE 340 Statistical Procedures.

#### **PE 410 COACHING OF FOOTBALL**

2 hours, fall term. Offered 1969-70 and alternate years. An analysis of systems of play, principles of offense and defense, and strategies of the game. The organization of practice sessions, administration of games, and techniques of scouting are stressed.

#### **PE 420 COACHING OF BASKETBALL**

2 hours, winter term. Offered 1969-70 and alternate years. An analysis of systems of play, principles of offense and defense, and strategies of the game. The organization of practice sessions, administration of games, and the techniques of scouting are stressed.

#### **PE 430 EXERCISE PHYSIOLOGY**

2 hours, winter term. Offered 1969-70 and alternate years. An application of physiology to body movement and exercise. Muscle chemistry and fatigue are studied. Prerequisite: Bi 331, 332 Physiology.

#### **PE 440 THE TEACHING OF PHYSICAL EDUCATION**

5 hours. An analysis of objectives, unit plans, activities, and instructional materials. Prerequisite: Ed 330 Principles of Secondary Education.

#### **PE 450 COACHING OF BASEBALL**

2 hours, spring term. A study of systems of play, principles of offense and defense, and strategies of the game. The organization of practice sessions, administration of games, and the techniques of scouting are stressed.

#### **PE 460 COACHING OF TRACK AND FIELD**

2 hours, spring term. A study of the principles of coaching each event. The organization of practice sessions, administration of meets, and the techniques of scouting are stressed.

#### **PE 490 SENIOR SEMINAR**

3 hours. For physical education majors. Designed to integrate the student's entire curriculum of study with current trends and issues in physical education through independent study and departmental seminars.





# **Division II**

## **Fine and Applied Arts**

Chairman: Dennis Hagen

James Annala, Richard Elliott, Jerry Friesen, Ruth Gilman, David Howard, Christabel Lauinger, Robert Lauinger, Dorothy Oppenlander, Peter Snow, Helen Street, Carole Stewart

### **Basic Objectives**

1. To give students an opportunity to acquire an appreciation of art, a knowledge of art fundamentals, and a basic foundation for further study in art.
2. To give students an understanding of the basic principles of home-making and to equip them to pursue a career in home economics, such as dietetics, clothing construction, and work in institutions.
3. To give all students an opportunity to acquire an appreciation of music through chapel programs, recitals, and concerts.
4. To give all students an understanding of music through general courses such as Survey of Music, Applied Music, Music Ensembles.
5. To equip talented students with skills needed to pursue a career in music.

### **ART**

#### **GS 117, 118 SURVEY OF ART**

1 hour, winter and spring terms. A course which explores the cultural and historic significance of architecture, painting, sculpture, and other arts.

#### **AA 311, 312 CREATIVE ARTS AND CRAFTS**

3 hours, fall and winter terms. Techniques for development of an art program in the elementary classroom including: methods, materials, and a wide variety of media.

#### **AA 201, 202, 203 CERAMICS**

2 hours each term. Offered on sufficient demand. Individual projects with emphasis on design and form. Practice in ceramic techniques and use of related materials: hand building, molding, glazing, and firing.

#### **AA 211, 212, 213 STUDIO ART**

2 hours each term. Fall term: drawing with pencil, charcoal, and pen and ink. Winter and spring terms: painting, sculpture, ceramics, printing.

#### **AA 231, 232/331, 332 LETTERING**

2 hours, winter and spring terms. Offered on sufficient demand. Work with flat-edged pen, brush, and speed-ball pen; a study of italic letter forms and an introduction to other letter forms; and an analysis of problems of layout and design.

## **HOME ECONOMICS**

### **Major Requirements**

A minimum of sixty term hours in home economics courses are required and must include: HEc 111, 112 Foods; HEc 121, 122 Clothing Construction; HEc 200/300 Nutrition; HEc 230 Textiles; HEc 240 Home Management and Equipment; HEc 301 House Planning; HEc 302 Interior House Design; HEc 310 Preschool Education; HEc 320 Advanced Clothing Construction; HEc 350 Home Decoration; HEc 390 Meal Planning; and HEc 430 Home Management. In addition the following electives are recommended: Ch 111, 112, 113 General Chemistry; HEc 250 Color and Design; HEc 310 Human Growth and Development; and HEc 340 Marriage and the Family. Part of this program is presently offered in cooperation with Linfield College.

### **Lower Division**

#### **HEc 111, 112 FOODS**

4 hours, fall and winter terms. Offered 1970-71 and alternate years. A study of securing and maintaining a good state of nutrition, the preparation and use of common foods, planning and serving meals, marketing, preservation of foods. One lecture and two laboratory periods per week.

#### **HEc 121, 122 CLOTHING CONSTRUCTION**

4 hours, fall and winter terms. Offered 1969-70 and alternate years. The development of a wholesome attitude toward clothing construction; of ability to construct clothing quickly, accurately, and with perfect fit; of ability to recognize fitting problems and how to correct them.

#### **HEc 200/300 NUTRITION**

4 hours. The relation of food to proper nutrition, the factors which influence its nutritive value, and the recent trends in dietary habits. Identical with HE 300.

#### **HEc 230 TEXTILES**

4 hours. Offered 1969-70 and alternate years. The study of textiles, their relation to the work of the household, and clothing problems.

#### **HEc 240 HOME MANAGEMENT AND EQUIPMENT**

4 hours. Offered 1969-70 and alternate years. The study of social and



economic problems found in the home, such as housing, house management, household production, and the adequacy and use of personal and family income. Includes a unit on use and care of household equipment.

#### **HEc 250 COLOR AND DESIGN**

4 hours. Art principles related to everyday living, with special emphasis on the home. Workshops are incorporated, giving experience in decorating for special occasions. Offered at Linfield College (HEc 3).

#### **HEc 260 CLOTHING SELECTION**

3 hours. Artistic and economic factors in the selection of clothing for the individual and the family. Offered at Linfield College (HEc 4).

#### **HEc 270 PROBLEMS IN CLOTHING**

5 hours. Advanced techniques, pattern alteration, fitting, and clothing construction. Special problems in silk and wool. A matching project required. Prerequisites: HEc 250 Color and Design, HEc 260 Clothing Selection, HEc 121, 122 Clothing Construction. Offered at Linfield College (HEc 62).

### **Upper Division**

#### **HEc 301 HOUSE PLANNING**

4 hours. A study of housing in relation to family living, approached from the social and economic aspects. Offered at Linfield College (HEc 107).

#### **HEc 302 INTERIOR HOUSE DESIGN**

4 hours. Analysis of the furnishing needs of the family based on principles of color and design, economic level, and personal taste. Offered at Linfield College (HEc 108).

#### **HEc 310 HUMAN GROWTH AND DEVELOPMENT**

3 hours. Identical with Psy 310 Human Growth and Development. See Division VI for description of course and prerequisite.

#### **HEc 320 ADVANCED CLOTHING CONSTRUCTION**

5 hours. Offered 1970-71 and alternate years. Emphasis on tailoring dresses, suits and coats. Prerequisite: HEc 121, 122 Clothing Construction.

#### **HEc 330 PRESCHOOL EDUCATION**

5 hours. Development of personal understanding of the young child. Study of child behavior through participation in the nursery school program. Offered at Linfield College (HEc 115).

#### **HEc 340 MARRIAGE AND THE FAMILY**

3 hours. Offered 1970-71 and alternate years. Identical with Soc 340 Marriage and the Family. See Division VI for description of the course and prerequisite.

#### **HEc 350 HOME DECORATION**

4 hours. Offered 1969-70 and alternate years. Principles involved in the planning and furnishing of a home. Emphasis is placed on practical home-making for the moderate type of home.

#### **HEc 360 CONSUMER BUYING**

3 hours. Offered 1970-71 and alternate years. Deals with the aspects of the economic system in which consumers operate with emphasis on individual problems and procedures. Emphasis on buying with the American way

of living in mind—particularly problems and aids in purchasing clothings and textiles.

#### **HEc 380 DRAPING**

4 hours. Offered 1970-71 and alternate years. Fundamental principles of flat pattern and draping with practical application of principles to the construction of afternoon and evening garments.

#### **HEc 390 MEAL PLANNING**

3 hours. Includes purchasing, menu making, and meal management. Emphasis on food preparation, and time and money management. Offered at Linfield College (HEc 155).

#### **HEc 430 HOME MANAGEMENT HOUSE**

5 hours. Principles underlying management of a home are put into practice during residence in the Home Management House. Offered at Linfield College (HEc 186).

#### **HEc 440 HOME ECONOMICS METHODS**

3 hours. Introduction to teaching of home economics in secondary schools. Study methods, purposes, and materials used in instruction. Organization of a home economics program. Offered at Linfield College (HEc 185).

#### **HEc 450 NEWER CONCEPTS IN TEACHING HOMEMAKING**

3 hours. Developing materials for teaching new concepts in all areas of homemaking. Current topics beyond the scope of course HEc 440 Home Economics Methods including the teaching of family relationships and child development. Offered at Linfield College (HEc 192).

## **MUSIC**

### **Major Requirements**

A student must complete a minimum of fifty-four term hours in music in addition to private lessons and ensemble classes. Students must enroll in piano class until they pass a proficiency test. Required courses: Mus 117, 118, 119 Introduction to Music Literature; Mus 121, 122, 123 Theory I; Mus 221, 222, 223 Theory II; Mus 201, 202, 203 Elementary Conducting; Mus 301, 302, 303 Music History; Mus 310 Counterpoint; Mus 320 Form and Analysis; Mus 420 Composition; and Mus 491, 492, 493 Senior Seminar. Students must enroll in an applied lesson and a large ensemble each term they are registered as a major.

### **Minor Requirements**

A student must complete a minimum of twenty-one term hours in addition to two years of private lessons and ensemble experience. Required courses: Mus 117, 118, 119 Introduction to Music Literature; Mus 121, 122, 123 Theory I; and either Mus 201, 202, 203 Elementary Conducting or three hours of music elective.

### **Applied Music**

Individual instruction is offered in voice, piano, organ, strings, woodwinds, brass, and percussion. Private lessons carry one term hour credit for one lesson per week. All music majors are required to enroll in an applied lesson each term they are listed as a major in the Bachelor of Arts

program. Music teaching majors must enroll in applied lessons for two years. The former must give a full recital in the senior year; the latter must give a half recital either in the junior or senior year. Music majors or music teaching majors may take two applied lessons per term for the price of one. All students in applied music lessons are expected to perform periodically in class musical programs and in public student recitals. Examinations are given by a committee from the music faculty at the end of each term.

#### **Mus 105, 205, 305, 405 VOICE**

1 hour. Study of proper voice production with emphasis on posture, breathing, and resonance. Studies from the standard repertoires including English songs, Italian classics, German lieder, French art songs, oratorio and operatic arias, and selected contemporary works. One private lesson per week.

#### **Mus 105, 205, 305, 405 PIANO**

1 hour. Technical exercises, scales and arpeggios in various rhythms, etudes of varying difficulty such as those by Duvernoy, Burgmuller, Heller, Czerny, and Clementi. Preludes and fugues, suites and partitas, and Bach's inventions. Sonatas by Mozart, Haydn, Beethoven, and Schubert. Selected concertos. Compositions by romantic and modern composers. One private lesson per week.

#### **Mus 105, 205, 305, 405 ORGAN**

1 hour. Basic study of pedal and manual techniques. Standard works from the Baroque, Classic, Romantic, and Modern periods. One private lesson per week.

#### **Mus 105, 205, 305, 405 STRINGS AND HARP**

1 hour. Instruction on violin, viola, cello, string bass, and harp. Basic fundamentals, posture, bow and arm techniques, shifting, and vibrato. Scales and arpeggios. Representative studies. Sonatas and concertos. Orchestral studies. One private lesson per week.

#### **Mus 105, 205, 305, 405 WOODWINDS**

1 hour. Instruction on flute, clarinet, oboe, and bassoon. Tone production, scales, and arpeggios in various articulations. Technical studies. Works from the standard solo repertoire. Orchestral studies. One private lesson per week.

#### **Mus 105, 205, 305, 405 BRASS**

1 hour. Instruction on trumpet, French horn, trombone, baritone, and tuba. Emphasis upon breath control, tone production, embouchure development, and tonguing techniques. Technical studies and solo works selected from representative composers with respect to the student's performing level. One private lesson per week.

#### **Mus 105, 205, 305, 405 PERCUSSION**

1 hour. Instruction on snare drum and various percussion instruments. Reference study of all percussion instruments used in concert band and symphony orchestra performances. One private lesson per week.

### **Ensemble Music**

#### **Mus 115, 215, 315, 415 ORATORIO CHOIR**

$\frac{1}{2}$  hour, fall term. The oratorio choir is open to all college students and



provides musical training through the study and performance of church music for large choirs. Performances are accompanied by the college orchestra. One rehearsal per week.

**Mus 125, 225, 325, 425 A CAPPELLA CHOIR**

1 or  $\frac{1}{2}$  hour each term. The a cappella choir consists of students selected by audition. Representative choral music from the Renaissance to the twentieth century is studied. An extended choir tour is made each year. A cappella choir members are required to participate in all productions given by the oratorio choir (description above). Three rehearsals per week.

**Mus 135, 235, 335, 435 VOCAL ENSEMBLE**

1 or  $\frac{1}{2}$  hour each term. This ensemble functions in winter and spring terms only. Performances are given for campus banquets, service clubs, auxiliaries, and church dinners. One rehearsal per week.

**Mus 145, 245, 345, 445 BAND**

1 or  $\frac{1}{2}$  hour each term. Standard band works are performed at two annual concerts in the winter and spring. An extended tour is made each year. Admission by consent of the instructor. Two rehearsals per week.

**Mus 155, 255, 355, 455 ORCHESTRA**

1 or  $\frac{1}{2}$  hour each term. Literature for the small orchestra is performed at two formal concerts in the spring. The orchestra also provides the accompaniment for the oratorio choir. One rehearsal per week.

**Mus 165, 265, 365, 465 INSTRUMENTAL ENSEMBLE**

$\frac{1}{2}$  hour each term. Designed to give students an opportunity to perform in a small ensemble. Each ensemble must have at least three members (an exception being piano ensembles where two members are accepted). Music performed will be chosen in cooperation with the instrumental faculty. One rehearsal per week.

## **Music Theory and Literature**

### **Lower Division**

**GS 107, 108 SURVEY OF MUSIC**

1 hour, winter and spring terms. A survey of the important historical periods of music designed to acquaint the liberal arts student with the major composers and their representative works.

**Mus 111, 112, 113 MUSIC FUNDAMENTALS**

2 hours each term. A study of the principals of notation, melody, rhythm, scales, and chords. Designed for students without previous training in music, especially for those preparing to teach on the elementary level.

**Mus 117, 118, 119 INTRODUCTION TO MUSIC LITERATURE**

2 hours each term. A course to develop music appreciation through extensive listening to standard works. Study of vocal and instrumental forms and styles of the various periods.

**Mus 121, 122, 123 THEORY I**

4 hours each term. An integrated course in basic musicianship, ear training, sight singing, dictation, keyboard harmony, analysis, and part writing. Includes all diatonic harmonies and simple modulations.

**Mus 131, 132, 133 CLASS PIANO I**

1 hour each term. Elementary class instruction in piano. Required of music majors unless waived by demonstration of acceptable proficiency.

**Mus 201, 202, 203 ELEMENTARY CONDUCTING**

1 hour each term. Emphasis on mastery of simple conducting patterns, cues, expressive gestures, and common problems in leading group singing and small instrumental ensembles.

**Mus 210 STRING TECHNIQUES**

1 hour. Elementary class instruction in the techniques of playing stringed instruments (one term of violin and one of cello are offered) to provide adequate teaching knowledge.

**Mus 221, 222, 223/321, 322, 323 THEORY II**

4 hours each term. A continuation of Theory I. Includes chromatic harmonies and remote modulations. Introduction to twentieth century harmonic usage. Creative work is required to demonstrate the use of material covered. Five class periods per week. Prerequisite: Mus 121, 122, 123 Theory I.

**Mus 231, 232, 233 CLASS PIANO II**

1 hour each term. A continuation of Piano Class I. Required of music majors unless waived by demonstration of acceptable proficiency.

**Mus 230 WOODWIND TECHNIQUES**

1 hour. Elementary class instruction in the techniques of playing woodwind instruments (one term of clarinet and one of flute are offered) to provide adequate teaching knowledge.

**Mus 250 BRASS TECHNIQUES**

1 hour. Elementary class instruction in the techniques of playing brass instruments to provide adequate teaching knowledge.

**Mus 260 PERCUSSION TECHNIQUES**

1 hour. Elementary class instruction in the techniques of playing percussion instruments to provide adequate teaching knowledge.

**Mus 270 VOCAL TECHNIQUES**

1 hour. Elementary class instruction in the techniques of singing to provide adequate teaching knowledge. Recommended for the beginning voice student to gain a knowledge of basic singing techniques.

## **Upper Division**

**Mus 301, 302, 303 MUSIC HISTORY**

3 hours each term. A study of the development of music from antiquity through the twentieth century. Comparisons are made to the development of the other arts. Concentrated study of music literature emphasizing the change in musical styles during the different historical periods. Prerequisites: Mus 121, 122, 123 Theory I and Mus 117, 118, 119 Introduction to Music Literature.

**Mus 310 COUNTERPOINT**

3 hours. Principles of eighteenth century polyphony. Detailed study of the works of J. S. Bach and his contemporaries. Original composition required. Recommended for all music majors.

### **Mus 320 FORM AND ANALYSIS**

3 hours. Detailed study of the structural components of music, including the motive, phrase, and period. Application to principal contrapuntal and homophonic forms of the Classic, Romantic, and Modern periods. Prerequisites: Mus 121, 122, 123 Theory I and Mus 221, 222, 223 Theory II.

### **Mus 340 CHURCH MUSIC**

2 hours. A study of the place, function, and contribution of music in the church. Recommended for any student anticipating a church vocation.

### **Mus 410 INSTRUMENTATION AND ORCHESTRATION**

3 hours. A study of the instruments of the orchestra and band including their ranges, characteristics, and capabilities. Practical application of the principles of arranging and scoring for orchestra-band instrumental combinations. Prerequisites: Mus 121, 122, 123 Theory I and Mus 221, 222, 223 Theory II.

### **Mus 420 COMPOSITION**

3 hours. Detailed study of representative works in the contemporary musical idiom and creative writing in the smaller forms. Prerequisites: Mus 121, 122, 123 Theory I and Mus 221, 222, 223 Theory II.

### **Mus 430 INSTRUMENTAL CONDUCTING**

2 hours. Designed to acquaint the student with the intricacies of directing band, orchestra, and instrumental ensembles. Basic conducting patterns are reviewed, literature of the aforementioned ensembles is covered, and some practical experience is given with the college band and small instrumental ensembles.

### **Mus 441, 442, 443 PUBLIC SCHOOL MUSIC METHODS**

3 hours, fall term; 4 hours, winter term. A certain degree of piano proficiency is required. A survey of aims, methods, materials, and repertoire used in teaching music in elementary and secondary schools. Prerequisite: Ed 330 Principles of Secondary Education.

### **Mus 450 CHORAL CONDUCTING**

2 hours. Designed primarily for music majors. Advanced work in traditional and modern patterns of conducting, syncopation, cueing, and expressive gestures. Practical experience in directing the a cappella choir is provided.

### **Mus 460 CHAMBER LITERATURE**

3 hours. A survey of the more important composers of chamber music from the eighteenth to the twentieth centuries and a representative selection of their works.

### **Mus 470 SYMPHONIC LITERATURE**

3 hours. A chronological survey of the development of orchestral music from the works of Corelli to the works of Richard Strauss.

### **Mus 480 CONTEMPORARY LITERATURE**

3 hours. A study of the various stylistic trends in the music of the twentieth century and their relationship to the music of the past.

### **Mus 491, 492, 493 SENIOR SEMINAR**

1 hour each term. Music majors prepare a project or recital under the supervision of the music faculty.



# **Division III**

## **Language Arts**

Chairman: Cecilia Martin

Paul Cammack, Dieter Engelhardt, Robert Gilmore, Myron Goldsmith, Barry Hubbell, Jo Kennison, LeRoy Lane, Samuel Sherrill, Sherie Sherrill

### **Basic Objectives**

1. To help students to communicate accurately, effectively, and logically in both oral and written expression.
2. To acquaint students with the language, literature, attitudes, and ideas of other nations and cultures.
3. To acquaint students with significant ideas that have grown out of world thinking and have been recorded in literature, and in so doing enlarge their understanding, appreciation, and enjoyment.

### **Major Requirements**

A student majoring in language arts is required to complete not fewer than fifty-four term hours of courses in Division III, exclusive of English Composition and two years of a foreign language or its equivalent. Thirty-six hours must be taken in upper division courses. The humanities sequence taken as lower division requirement may not be counted as major credits.

## **DRAMA**

### **Major Requirements**

Sp 110 Voice and Diction; Dr 120 Fundamentals of Acting; Dr 220/320 Advanced Acting; Sp 230 Oral Interpretation; Dr 254 Introduction to Drama; Dr 324 Contemporary Drama; Dr 331, 332, 333 Play Production; Dr 420 History of Dramatic Thought; and Dr 490 Senior Seminar. Additional requirements are Eng 381, 382, 383 Shakespeare, as well as sixteen

additional hours in drama (to total fifty-four hours), to include individual speech and play direction. Thirty-six hours of the fifty-four hours must be in upper division courses. Drama majors will also select two hours in movement in physical education within or in addition to the lower division physical education requirement, from the following: folk rhythms, rhythmic activities, tumbling or apparatus, and body mechanics. Drama majors will also fulfill attendance, performance, and technical cocurricular assignments as required by the department.

## **Lower Division**

### **Dr 120 FUNDAMENTALS OF ACTING**

2 hours. Introduction to principles of acting and the performing arts. Emphasis on improvisation. A study of the theories of acting. Performance of scenes, critical observation, analysis, and criticism of productions.

### **Dr 125/325 THEATER LABORATORY**

1 or 2 hours, any term. The practical application of theater techniques in connection with dramatic productions. Open to any student wishing to take part in productions.

### **Dr 140/340 THEATER SEMINAR**

1 or 2 hours, any term. (May be repeated throughout a two-year sequence.) Introduction to the theory and practice of various phases of theater art, studied in sequence by quarter, including play direction, drama for the church, children's theater, creative dramatics, puppetry, radio-television drama, play writing. This course will be designed to be adapted to the needs of the students currently enrolled. Prerequisite: Permission of instructor.

### **Dr 220/320 ADVANCED ACTING**

2 hours. A review of principles learned in fundamentals course and in practical experience. Extension of those principles to include verbal dynamics, movement, emotional control, and esthetic values of acting. Two class periods and two laboratory periods per week.

### **Dr 254 INTRODUCTION TO DRAMA**

3 hours. Identical with Eng 254. See below for description of course and prerequisite.

## **Upper Division**

### **Dr 324 CONTEMPORARY DRAMA**

3 hours. Identical with Eng 324. See below for description of course and prerequisite.

### **Dr 331, 332, 333 PLAY PRODUCTION**

2 hours each term. Offered 1969-70 and alternate years. A study of the technical problems facing the director, including scenery design and construction, stage lighting, stage makeup, stage costume, and theater organization and management. This course is designed to meet the needs of the student who expects to produce plays in the secondary school.

### **Dr 420 HISTORY OF DRAMATIC THOUGHT**

3 hours. Offered 1970-71 and alternate years. A survey of the history of theater arts, dramatic literature, and dramatic criticism. Special emphasis

will be given to philosophic ideas as they are found in and their effects on dramatic literature.

#### **Dr 490 SENIOR SEMINAR**

4 hours. Research projects and reading in drama leading to comprehensive written and oral examinations. Prerequisite: Permission of instructor.

## **ENGLISH**

### **Lower Division**

#### **Eng 111, 112, 113 ENGLISH COMPOSITION**

3 hours each term. A course in composition emphasizing clarity of thought and expression. Stress on expository reading and writing and the research term paper. Background reading in literary types—short story, drama, poetry.

#### **Eng 117, 118, 119 ENGLISH COMPOSITION AND WRITING LABORATORY**

3 hours each term. The same as Eng 111, 112, 113, but with extra time and requirements for those judged low in English. Five class periods per week.

#### **Eng 205/305 JOURNALISM WORKSHOP**

1 hour (limited to 3 hours total credit). The practical application of journalism techniques in connection with the publishing of the college newspaper, *The Crescent*. Prerequisite: Eng 210 Techniques of Journalism.

#### **Eng 210 TECHNIQUES OF JOURNALISM**

3 hours. This course is designed to give fundamental knowledge and practice in reporting, writing, and editing the news; writing features and editorials; studying the organization and techniques of newspapers and other media of mass communication. Prerequisite: Eng 111, 112, 113 English Composition or permission of instructor.

### **Upper Division**

#### **Eng 300 ADVANCED COMPOSITION**

3 hours. Offered 1970-71 and alternate years. Opportunities for creative writing and for a further study of the principles of good composition, with stress on exposition. Prerequisite: Eng 111, 112, 113 English Composition.

#### **Eng 321, 322, 323 PUBLICATION EDITING**

1 hour each term. An advanced course in the practice of publishing the student newspaper and the yearbook. It is offered to those students in positions of responsibility in the publications.

#### **Eng 330 VERSIFICATION**

3 hours. Offered 1969-70 fall and alternate years. An introduction to the techniques of poetry—types, metrics, scansion.

#### **Eng 340 ENGLISH LANGUAGE DEVELOPMENT**

3 hours. Offered 1970-71 and alternate years. A study of the origin and development of the English language, including its grammar and levels of usage in modern English. Includes an introduction to transformational grammar.



## **FRENCH**

### **Fr 101, 102, 103 FIRST-YEAR FRENCH**

4 hours each term. The audio-lingual approach is used, with records and tapes and work in the language laboratory. Students must arrange for two 25-minute study periods per week in the laboratory. One of the five class meetings each week will be in the laboratory. Reading, writing, and grammar are introduced gradually.

### **Fr 201, 202, 203 SECOND-YEAR FRENCH**

4 hours each term. Four regular classes weekly plus one class laboratory period and two 25-minute laboratory study periods to be arranged. Stress on audio-lingual aspects, review and continuation of grammar, reading, introduction to French literature. Prerequisite: Fr 101, 102, 103 First-year French or equivalent shown by passing placement test.

## **GERMAN**

### **Ger 101, 102, 103 FIRST-YEAR GERMAN**

4 hours each term. The audio-lingual approach is used, with records and tapes and work in the language laboratory. Students must arrange for two 25-minute study periods a week in the laboratory. One of the five class meetings each week will be in the laboratory. Reading, writing, and grammar are introduced gradually.

### **Ger 201, 202, 203 SECOND-YEAR GERMAN**

4 hours each term. Four regular classes weekly plus one class laboratory period and two 25-minute laboratory study periods to be arranged. Stress on audio-lingual aspects; review and continuation of grammar; reading of standard intermediate texts. Prerequisite: Ger 101, 102, 103 First-year German or equivalent shown by passing placement test.

## **GREEK**

### **Gr 101, 102, 103 FIRST-YEAR NEW TESTAMENT GREEK**

4 hours each term. Offered 1970-71 and alternate years. A beginner's course in the Greek of the New Testament, including vocabulary, grammar, declensions, conjugations, and special constructions. The First Epistle of John and various other selections from the New Testament are read.

### **Gr 201, 202, 203 SECOND-YEAR NEW TESTAMENT GREEK**

4 hours each term. Offered 1969-70 and alternate years. Review of the Greek grammar and advanced studies. Selections from the Greek New Testament are read, with attention to grammar and exegesis. Identical with R 201, 202, 203. Prerequisite: Gr 101, 102, 103 First-year New Testament Greek.

### **Gr 301, 302, 303 NEW TESTAMENT GREEK**

4 hours each term. Identical with Gr 201, 202, 203, but upper division.

## **LINGUISTICS**

### **L 300 INTRODUCTION TO LINGUISTICS**

3 hours. Offered 1969-70 and alternate years. The nature of language, problems involved in the study of language considered in the light of

modern linguistic studies, phonetic transcription of the sounds of different languages. Includes an introduction to transformational grammar. Recommended as a basic course to students preparing for work abroad and to students planning to take Eng 340 English Language Development.

## LITERATURE

### Major Requirements

Eng 300 Advanced Composition; Eng 330 Versification; Eng 340 English Language Development; Eng 350 Milton; Eng 370 Chaucer; Eng 381, 382, 383 Shakespeare; Eng 390 Spenser; Eng 491, 492, 493 Senior Thesis; plus 6 more hours in the period courses; and L 300 Linguistics.

### Lower Division

Eng 201, 202, 203 ENGLISH LITERATURE

3 hours each term. A survey of English literature with emphasis on the development of ideas as well as on types of literature.

Eng 251, 252, 253 MASTERPIECES OF WORLD LITERATURE

3 hours each term. A course designed to give understanding and appreciation of the best literature, both past and present, of the various countries of the world.

Eng 254 INTRODUCTION TO DRAMA

3 hours. Offered 1970-71 and alternate years. The history and nature of drama with study of different types and periods. Identical with Dr 254.

### Upper Division

Eng 301, 302, 303 ENGLISH LITERATURE

3 hours each term. Identical with Eng 201, 202, 203, but upper division. Additional work is required for earning upper division credit.

Eng 310 THE ENGLISH NOVEL

3 hours. Offered 1969-70 and alternate years. An analytical and historical study of the English novel from the eighteenth century.

Eng 311, 312 AMERICAN LITERATURE

3 hours each term. Offered 1970-71 and alternate years. A sequence with Eng 320 Eighteenth Century English Literature. The development of American literature, with special attention to social, political, and religious problems as presented in literature.

Eng 314 EARLY ENGLISH LITERATURE

3 hours, fall term. Offered 1970-71 and alternate years. History and literature of Roman and Anglo-Saxon England and its contribution to the later literature of Britain. Special attention is given to the *Beowulf*, the Cynewulfian poems, early translations from the Bible, literature under Alfred the Great, and the Anglo-Saxon Chronicles.

Eng 320 EIGHTEENTH CENTURY ENGLISH LITERATURE

3 hours, fall term. Offered 1970-71 and alternate years. The Age of Enlightenment, Neoclassicism, the Age of Queen Anne, the Age of Reason: the history, the philosophy, the literature, the effect on the English language of this very significant period. Movements traced will be the

beginnings of modern journalism, the development of the English essay, the first English dictionaries, the beginnings of the English novel, the re-assertion of imagination and Romanticism at the end of the century. Early American literature, which begins in this period of the American Revolution, will be correlated with its English antecedents. First term of sequence is followed by Eng 312, 313 American Literature.

**Eng 324 CONTEMPORARY DRAMA**

3 hours. Offered 1970-71 and alternate years. Analysis of contemporary drama as exemplified by specific plays. Identical with Dr 324.

**Eng 350 MILTON**

3 hours, winter term. Offered 1969-70 and alternate years. A study of Milton and his poetry and prose against the background of the seventeenth century.

**Eng 360 TENNYSON AND BROWNING**

3 hours, spring term. Offered 1970-71 and alternate years. A study of the poetry of Tennyson and Browning with some consideration of their most significant contemporaries and of the Victorian era.

**Eng 370 CHAUCER AND HIS AGE**

3 hours, winter term. Offered 1970-71 and alternate years. A study of Chaucer as one of the great English poets of the fourteenth century renaissance.

**Eng 381, 382, 383 SHAKESPEARE**

3 hours each term. Offered 1969-70 and alternate years. A study of the major plays of Shakespeare, the background that produced them, and the contribution they make to current thinking.

**Eng 390 SPENSER**

3 hours, fall term. Offered 1969-70 and alternate years. A study of the *Faerie Queene* and minor poems of Spenser, their significance in the history of English poetry.

**Eng 430 ENGLISH ROMANTIC POETS OF THE EARLY NINETEENTH CENTURY**

3 hours, spring term. Offered 1969-70 and alternate years. Particular attention is given to the poetry of Wordsworth and the Lake Poets, Shelley and his circle, Byron and Keats.

**Eng 440 TEACHING OF LANGUAGE ARTS**

3 hours. Identical with Ed 440. See Division I for description of course and prerequisite.

**Eng 460 TEACHING OF DEVELOPMENTAL READING**

3 hours, winter term. Identical with Ed 460. See Division I for description of course and prerequisite.

**Eng 470 TWENTIETH CENTURY LITERATURE**

3 hours, spring term. Offered 1970-71 and alternate years. Thinkers and writers in twentieth century England and America.

**Eng 491, 492, 493 SENIOR THESIS**

1 hour each term. Required of majors in literature.



# SPANISH

## Major Requirements

A minimum of thirty-six upper division hours in Spanish including: Spn 301, 302, 303 Spanish Composition and Conversation; Spn 311, 312 Spanish Pronunciation and Phonetics; Spn 321, 322, 323 Spanish Literature; Spn 400 Hispanic Culture and Civilization; and Spn 491, 492 Senior Seminar. In addition Eng 251, 252, 253 Masterpieces of World Literature, Hst 350 History of Latin America, and L 300 Introduction to Linguistics are required.

## Lower Division

### Spn 101, 102, 103 FIRST-YEAR SPANISH

4 hours each term. Elementary practice in listening, speaking, reading, and writing Spanish. A study of the elements of grammar. Five classes, one of which is a class laboratory period, and two other individual laboratory periods are required weekly.

### Spn 201, 202, 203 SECOND-YEAR SPANISH

4 hours each term. An extension of listening, speaking, and writing with review of grammar. Reading of short stories and novels with reports and individual projects. Five classes and two individual laboratory periods are required weekly.

## Upper Division

### Spn 301, 302, 303 SPANISH COMPOSITION AND CONVERSATION

3 hours each term. Fundamentals of pronunciation and grammar applied in extensive oral and written practice. Conducted in Spanish. Prerequisite: Two years of college Spanish or its equivalent.

### Spn 305 DIRECTED READING IN SPANISH

1 or 3 hours, with a total limit of 3 hours. Reading to further develop proficiency and appreciation of Spanish and to increase acquaintance with Spanish and Spanish-American life. Prerequisite: Two years of college Spanish or its equivalent.

### Spn 311, 312 SPANISH PRONUNCIATION AND PHONETICS

3 hours each term. Scientific study of Spanish phonetics and phonemics, with emphasis on correct formation and production of sounds, combinations of sounds, and intonation. Extensive listening and speaking practice in language laboratory. Prerequisite: Spn 201, 202, 203 Second-year Spanish or its equivalent.

### Spn 321, 322, 323 SPANISH LITERATURE

3 hours each term. Offered 1969-70 and alternate years. A study of the important writers, works and literary movements of Spanish literature including the Middle Ages, eighteenth, nineteenth, and twentieth centuries. Lectures, class discussion, outside readings, and reports. Conducted in Spanish. Prerequisite: Ability to understand spoken and written Spanish.

### Spn 400 HISPANIC CULTURE AND CIVILIZATION

3 hours. An analysis of Spanish culture with emphasis on the historical and political background, philosophy, social institutions, art, and achieve-

ment of the Iberian Peninsula and Hispanic America. Conducted in Spanish. Prerequisite: Ability to understand spoken and written Spanish.

**Spn 410 ADVANCED SPANISH COMPOSITION AND CONVERSATION**

3 hours. Advanced and specialized study in written and spoken Spanish. Conducted in Spanish. Prerequisite: Spn 301, 302, 303 Spanish Composition and Conversation or its equivalent.

**Spn 420 MODERN SPANISH LITERATURE**

3 hours. Spanish literature since 1898. Principal types and authors. Extensive reading of texts. Conducted in Spanish. Prerequisite: Ability to understand spoken and written Spanish.

**Spn 421, 422 SPANISH AMERICAN LITERATURE**

3 hours. Offered 1970-71 and alternate years. The social, political, and literary currents of the Central and South American countries, treating the colonial and revolutionary periods, romanticism, and modern movements. Conducted in Spanish. Prerequisite: Two years of college Spanish or its equivalent.

**Spn 430 LITERATURE OF THE SPANISH GOLDEN AGE**

3 hours. An intensive study of the authors of the Golden Age (1500-1680), including Calderon, Cervantes, Garcilaso, Gongora, Lope de Vega, and others. Conducted in Spanish. Prerequisite: Ability to understand spoken and written Spanish.

**Spn 491, 492 SENIOR SEMINAR**

2 hours, fall term; 1 hour, winter term. Study of selected topics in Spanish.

## **SPEECH ARTS**

### **Major Requirements**

Sp 110 Voice and Diction; Dr 120 Fundamentals of Acting; Sp 210 Fundamentals of Speech; Sp 220 Essentials of Discussion; Sp 230 Oral Interpretation of Literature; Sp 300 Persuasive Address and Argumentation; Dr 320 Advanced Acting; Dr 331, 332, 333 Play Production; Sp 410 History and Criticism of Public Address or Dr 420 History of Dramatic Thought; and Sp 490 Senior Seminar. In addition, Dr 254 Introduction to Drama, Dr 324 Contemporary Drama, and fifteen upper division hours selected from Speech, Drama, English, or Linguistics are required.

## **SPEECH**

### **Lower Division**

**Sp 105/305 INDIVIDUAL INSTRUCTION IN SPEECH**

1 hour. Private guidance in correcting speech problems or in developing speech skills. Prerequisite: Permission of instructor.

### **Sp 110 VOICE AND DICTION**

2 hours. Training to improve articulation, voice quality, and the use of pitch, volume, and rate. Instruction in the theory of sound production and phonetics.

### **Sp 135/335 APPLIED FORENSICS**

$\frac{1}{2}$  hour (maximum 4 hours). Training in debate, oratory, oral interpretation, impromptu speaking, and extemporaneous address in preparation for contest forensics.

### **Sp 210 FUNDAMENTALS OF SPEECH**

4 hours. A basic course involving essential training in the preparation, delivery, and evaluation of short speeches of various types.

### **Sp 220 ESSENTIALS OF DISCUSSION**

2 hours. A study of discussion principles and the basic approaches to group discussion.

### **Sp 230 ORAL INTERPRETATION OF LITERATURE**

4 hours, fall term. Study of the oral presentation of different types of literature to include poetry, prose, and essays. Study and practice to develop skill in projection of thought and emotion by reading aloud. Recommended for future English teachers and ministers.

### **Sp 290 BUSINESS AND PROFESSIONAL SPEAKING**

2 hours. Offered on sufficient demand. Instruction in basic speaking skills as they might be applied in business and professional speaking situations.

## **Upper Division**

### **Sp 300 PERSUASIVE ADDRESS AND ARGUMENTATION**

4 hours, winter term. Principles, methods, and standards of public speaking; the preparation and delivery of an effective speech for a purpose and an occasion. Prerequisite: Sp 210 Fundamentals of Speech. Identical with R 300.

### **Sp 410 HISTORY AND CRITICISM OF PUBLIC ADDRESS**

4 hours, spring term. A study of representative American speeches from the colonial period to the present; emphasis upon critical analysis and research.

### **Sp 490 SENIOR SEMINAR**

4 hours. Research projects in communication and rhetoric leading to written and oral examinations covering areas investigated. Prerequisite: Permission of instructor.







# **Division IV**

## **Natural Science**

Chairman: Hector Munn

John Brewster, Ludlow Corbin, Dorothy Oppenlander, Dale Orkney, Evan Rempel, James Stanley, Elver Voth

### **Basic Objectives**

1. To help the student develop an awareness and understanding of his environment.
2. To prepare the student for advanced study in these and related fields.
3. To provide the necessary discipline for increased competence in intellectual pursuits.
4. To provide a background for studies in psychology, sociology, education, and related subjects.

## **BIOLOGY**

### **Major Requirements**

Fifty-one term hours in biology are required including: Bi 101, 102, 103 General Biology and at least thirty-nine hours of upper division courses including Bi 311, 312 Plant Morphology and Bi 491, 492, 493 Senior Seminar. In addition, twenty-eight hours in related subjects are required including: Ch 111, 112, 113 General Chemistry; Mth 121 College Algebra or the equivalent; Ch 210 Quantitative Analysis; and Ch 331, 332 Organic Chemistry. Each biology major is required to prepare a research paper during his senior year, which must report independent research. In addition, sixteen hours in related subjects are required, including Ch 107, 108, 109 General Chemistry, and Mth 121 College Algebra or the equivalent. Biology majors should also expect to include Ch 211, 212 Quantitative Analysis, and Ch 301, 302, 303 Organic Chemistry in their program.

# CHEMISTRY

## Major Requirements

Fifty-one hours in chemistry including: Ch 111, 112, 113 General Chemistry and at least thirty-nine hours in upper division chemistry to include Ch 490 Selected Topics in the senior year. Mathematics through Mth 202 Multivariable Calculus and Ph 201, 202, 203 General Physics are required as supporting courses. Preparation for graduate work in chemistry should include preparation in German or French.

## Lower Division

### Ch 111, 112, 113 GENERAL CHEMISTRY

4 hours each term. A study of fundamental chemical phenomena and principles including theories for their interpretation. Laboratory instruction emphasizes quantitative aspects of chemistry. Spring term includes inorganic qualitative analysis. Programmed machines are used to individualize instruction. Two lectures and two laboratory periods per week.

### Ch 210 QUANTITATIVE ANALYSIS

4 hours, spring term. Emphasizes the skills and techniques of chemical measurements. Includes classical gravimetric and volumetric procedures and an introduction to spectrophotometric and chromatographic procedures. Theoretical basis of each procedure is considered. A service course for premedical, predental, and medical technology students. Two lectures and two three-hour laboratory periods per week. Prerequisite: Ch 113 General Chemistry.

## Upper Division

### Ch 331, 332, 333 ORGANIC CHEMISTRY

4 hours each term. An approach stressing structural, bonding, and energy factors of organic compounds and the mechanism of their reactions. Classical aliphatic and aromatic chemistry are integrated. Laboratory stresses techniques, skills and purposes involved in synthesis, purification, and identification of organic compounds. Two lectures and two three-hour laboratory periods per week. Prerequisite: Ch 113 General Chemistry.

### Ch 340 BIOCHEMISTRY

4 hours, fall term. Offered 1969-70 and alternate years. An introduction to the chemistry of substances involved in life processes. The structures, reactions, and energy transformations of these compounds are considered. Laboratory involves a study of properties, purification, and identification of bio-organic compounds. Three lectures and one three-hour laboratory period per week. Prerequisite: Ch 332 Organic Chemistry.

### Ch 401, 402, 403 PHYSICAL CHEMISTRY

3 hours each term. Offered 1970-71 and alternate years. An introduction to modern theoretical chemistry emphasizing thermodynamics, kinetics, and molecular structure. Two lectures and one recitation period per week. Prerequisite: Mth 202 Multivariable Calculus and Ph 203 General Physics.

### Ch 405, 406, 407 PHYSICAL CHEMISTRY LABORATORY

1 hour each term. Optional in combination with Ch 401, 402, 403 Physical Chemistry.



#### **Ch 410 INORGANIC CHEMISTRY**

4 hours, fall term. Offered 1970-71 and alternate years. Includes descriptive inorganic chemistry, reaction mechanism, and modern theoretical advances. Three lectures and one three-hour laboratory period per week.

#### **Ch 420 ADVANCED ANALYTICAL CHEMISTRY**

4 hours, winter term. Offered 1969-70 and alternate years. Modern analytical methods and theory with emphasis on current applications including specialized instrumental techniques. Two lectures and two three-hour laboratory periods per week.

#### **Ch 430 ADVANCED ORGANIC CHEMISTRY**

4 hours, winter term. Offered 1969-70 and alternate years. Current theories of structure mechanism and acid-base properties of organic compounds. Prerequisite: Ch 333 Organic Chemistry.

#### **Ch 440 ORGANIC ANALYSIS**

3 hours, winter term. Offered 1970-71 and alternate years. Systematic procedures of separation and identification of organic compounds. One hour lecture and two three-hour laboratory periods per week. Prerequisite: Ch 333 Organic Chemistry.

#### **Ch 490 SELECTED TOPICS**

3 hours, spring term. One of the following topics may be selected: environmental science, solid state, quantum mechanics, introduction to research, or electronic apparatus. Prerequisite: Senior standing in chemistry.

## **GENERAL SCIENCE**

### **Lower Division**

#### **GSc 101 FOUNDATIONS OF EARTH SCIENCE**

4 hours, fall term. The basic concepts, language, and methodology of geology, meteorology, astronomy, and oceanography are considered with laboratory experience drawn from local phenomena. Three lectures and one laboratory period per week.

#### **GSc 102 FOUNDATIONS OF PHYSICS**

4 hours, winter term. A survey of some basic topics related to the field of physics such as motion, energy, sound, electricity, relativity. Emphasis on vocabulary and broad principles. Extensive mathematics background not required. Three lectures and one laboratory period per week.

#### **GSc 103 FOUNDATIONS OF CHEMISTRY**

4 hours, spring term. Emphasis on topics related to the field of chemistry. Survey of modern theory and applications. Recommended background for elementary teachers and those wanting some introduction to chemistry who are not planning to take advanced chemistry courses.

### **Upper Division**

#### **GSc 310 ESSENTIALS OF GEOLOGY**

3 hours, fall term. Offered 1970-71 and alternate years. An introductory study of physical geology, rocks, minerals, and theories of developmental geology. Two lectures and one laboratory period per week.

### **GSc 320 ESSENTIALS OF METEOROLOGY**

3 hours, winter term. Offered 1970-71 and alternate years. A study of the atmosphere, the factors that produce weather, and how these factors are measured and used to predict weather. Laboratory involves a study of local weather and the use of synoptic weather data. Two lectures and one laboratory period per week.

### **GSc 330 ESSENTIALS OF ASTRONOMY**

3 hours, spring term. Offered 1970-71 and alternate years. A study of the solar system, constellations, stars, stellar systems, and current theories of cosmology. Three lectures with periodic laboratory periods at night.

## **MATHEMATICS**

### **Major Requirements**

A minimum of thirty-two approved term hours in mathematics beyond Mth 202 Multivariable Calculus, twenty-four of which must be upper division, is required. In addition, the student must complete Ph 101, 102, 103 General Physics.

### **Lower Division**

#### **Mth 111, 112, 113 ESSENTIALS OF MATHEMATICS**

3 hours each term. A study of the structures of arithmetic. Includes number bases, group and set theory, module systems, mathematical proof, and functions. Does not apply toward a mathematics major.

#### **Mth 120 INTERMEDIATE ALGEBRA**

4 hours. Offered on demand. A short review of high school algebra followed by the study of the binomial theorem, progressions, permutations and combinations, determinants, and logarithms. Does not apply toward a mathematics major.

#### **Mth 121 COLLEGE ALGEBRA**

4 hours, fall term. A study of sets, number fields, relations, functions, graphs, equations of lines and conics, trigonometric functions and their interrelationships, and elements of linear algebra.

#### **Mth 122, 123 CALCULUS WITH ANALYTIC GEOMETRY**

4 hours, winter and spring terms. A study of limits, continuity, differentiation with applications, Riemann integral, conics, exponential functions, analytic geometry, vectors, and methods of integration. Prerequisite: Mth 121 College Algebra or equivalent.

#### **Mth 201, 202 MULTIVARIABLE CALCULUS**

4 hours, fall and winter terms. A study of multiple integration, partial differentiation, multidimensional vectors, infinite series, and elements of linear algebra. Prerequisite: Mth 123 Calculus with Analytic Geometry or equivalent.

#### **Mth 210 COMPUTER CODING**

3 hours, fall term. Instruction and practice in computer coding with individual opportunity for development of proficiency in basic skills in computer use and application.

## Upper Division

### Mth 300 COMPUTER PROGRAMMING

3 hours, spring term. Offered 1969-70 and alternate years. A course emphasizing symbolic language and the formation of computer programs for business and industry. Prerequisite: Mth 210 Computer Coding.

### Mth 310 DIFFERENTIAL EQUATIONS

5 hours, spring term. A study of the theory, methods of solution, and applications of ordinary differential equations. This includes series solution and Laplace transforms. Prerequisite: Mth 201, 202 Multivariable Calculus.

### Mth 321, 322, 323 HIGHER ALGEBRA

3 hours each term. Offered 1969-70 and alternate years. A study of groups, fields, rings, integral domains, vector spaces, matrices, polynomials, determinants, and algebraic number systems. Prerequisite: Mth 201, 202 Multivariable Calculus.

### Mth 331, 332 PROBABILITY AND STATISTICS

3 hours, fall and winter terms. Offered 1970-71 and alternate years. A study of sample spaces, combinatorial methods, discrete and continuous distributions, sampling, estimating parameters, and testing hypotheses. Prerequisite: Mth 201, 202 Multivariable Calculus.

### Mth 400 NUMERICAL ANALYSIS

3 hours, spring term. Offered 1970-71 and alternate years. A study of solution of equations, polynomial approximations, and differential equations.

### Mth 411, 412 MODERN GEOMETRY

3 hours, fall and winter terms. Offered 1969-70 and alternate years. A study of advanced Euclidian, projective, and non-Euclidian geometry. Elements of topology. Prerequisite: Mth 201, 202 Multivariable Calculus.

### Mth 421, 422 ADVANCED CALCULUS

5 hours, fall and winter terms. Offered 1970-71 and alternate years. A rigorous treatment of topics introduced in lower division calculus with a study of more advanced topics basic to the study of real and complex variables. Prerequisite: Mth 201, 202 Multivariable Calculus.

### Mth 423 COMPLEX VARIABLES

3 hours, spring term. Offered 1970-71 and alternate years. A study of the calculus of complex variables to include: Cauchy's Theorem, residues, and contour integration. Prerequisite: Mth 421, 422 Advanced Calculus.

### Mth 440 TEACHING OF MATHEMATICS

3 hours, winter term. Identical with Ed 440. See Division I for description of course and prerequisite.

### Mth 490 SELECTED TOPICS

1 to 3 hours, spring term. Individual study of selected topics. Prerequisite: Mth 201, 202 Multivariable Calculus.



# PHYSICS

## Lower Division

### Ph 201, 202, 203 GENERAL PHYSICS

4 hours each term. An introductory course. Mechanics, heat, sound, electricity, magnetism, and light are studied.

## Upper Division

### Ph 301, 302, 303 MODERN PHYSICS

3 hours each term. Offered 1970-71 and alternate years. A course covering some of the developments in physics since 1895. Included are the discovery of the electron, radioactivity, atomic structure, X rays, and elementary nuclear physics. Prerequisite: Mth 121 College Algebra; Mth 122, 123 Calculus with Analytic Geometry; and Ph 201, 202, 203 General Physics.

### Ph 301L, 302L, 303L MODERN PHYSICS LABORATORY

1 hour each term. Offered 1970-71 and alternate years. Required laboratory work to complement Ph 301, 302, 303 Modern Physics.

### Ph 351, 352, 353 ELECTRICITY AND MAGNETISM

3 hours each term. Offered 1969-70 and alternate years. A study of electrostatics, direct currents, transients, alternating currents, and Maxwell's equations. Prerequisite: Mth 201, 202 Multivariable Calculus and Ph 201, 202, 203 General Physics.

### Ph 351L, 352L, 353L ELECTRICITY AND MAGNETISM LABORATORY

1 hour each term. Offered 1969-70 and alternate years. Required laboratory work to complement Ph 351, 352, 353 Electricity and Magnetism.



# **Division V**

## **Religion**

Chairman: Myron D. Goldsmith

Harold Ankeny, Everett Craven, Paul Mills, David Myton, Arthur O. Roberts

### **Basic Objectives**

1. To give every student opportunity for systematic Bible study and Christian interpretation through required and elective courses.
2. To provide preprofessional studies basic to pastoral, evangelistic, educational, and missionary ministry of the Christian faith.
3. To provide a fund of biblical knowledge and consistent teaching methodology for those who plan to serve as Christian education directors, Sunday school teachers, youth or adult leaders, and social workers.
4. To enable students through a study of philosophy to participate in formal thinking about problems of nature, knowledge, and value with the aim of increasing awareness of the force of ideas in the world.

### **Religion Requirements for All Students**

#### **Lower Division**

GS 101, 102, 103 Literature of the Bible, nine term hours or an equivalent survey course. Students scoring high on the freshman Bible Knowledge Inventory may elect a sophomore sequence to fulfill this requirement.

#### **Upper Division**

Required for graduation are six to nine hours selected from courses prefixed "R" and marked with asterisks, including for Friends students R 381 History of Friends or R 382 Doctrine of Friends. Selection is

determined as follows: six hours is required for all students who have taken Literature of the Bible or an equivalent survey course; nine hours is required for all students transferring to George Fox College with junior standing who have not taken such a survey course (five to six of the nine hours must be selected from the Bible courses offered).

Students in joint-degree programs of elementary education are not required to fulfill the six hours in upper division religion if they have fulfilled the lower division Bible requirement.

## **Major Requirements**

A student majoring in religion may elect one of two fields of concentration: Bible and Christian education or religion and philosophy. A minimum of fifty-four term hours is required for the major and must be distributed as follows: a minimum of thirty-six term hours shall be taken in one concentration and must include at least eighteen upper division term hours; an additional eighteen term hours, nine of which are upper division, must be chosen from the other field of concentration. All religion majors are required to take R 490 Contemporary Religious Thought. A comprehensive examination will be given to religion majors early in the winter term of their senior year. Failure to achieve satisfactorily on any portion of the examination necessitates additional reading under faculty direction and retesting until competency is shown.

## **BIBLE**

### **Lower Division**

#### **GS 101, 102, 103 LITERATURE OF THE BIBLE**

3 hours each term. A survey of the Bible using selected books and portions. The major religious themes and their literary forms will be studied in historic context with attention given to the tools for biblical study useful in handling the problems of authorship, text, and interpretation.

#### **R 201, 202, 203 SECOND-YEAR NEW TESTAMENT GREEK**

4 hours each term. Offered 1969-70 and alternate years. Identical with Gr 201, 202, 203. See Division III for description of the course and prerequisite. Students seeking to satisfy the lower division foreign language requirement must register for Gr 201, 202, 203.

#### **R 240 OLD TESTAMENT POETRY**

3 hours. A study of the poetical books: Job, Psalms, Proverbs, Ecclesiastes, and the Song of Solomon. Emphasis will be placed on the great themes of these books as well as upon the forms of poetry, drama, and wisdom literature. Reference will be made to the Apocrypha.

#### **R 260 THE SYNOPTIC GOSPELS**

3 hours. A study of the life and teaching of Jesus Christ as given in the accounts of Matthew, Mark, and Luke.

#### **R 270 THE WRITINGS OF JOHN**

3 hours. A study of the meaning of belief in Jesus Christ, the Son of God, as depicted in Johannine literature: the Gospel, letters, and Apocalypse.



## Upper Division

Courses marked with asterisks will satisfy upper division religion requirements.

### R 301, 302, 303 NEW TESTAMENT GREEK

4 hours each term. Identical with R 201, 202, 203, but upper division.

### R 310 OLD TESTAMENT HISTORY\*

4 hours. Offered 1969-70 and alternate years. A study of the text of the historical books, Genesis to Esther, along with the history of related nations.

### R 320/420 BIBLE ARCHEOLOGY\*

4 hours. Offered 1969-70 and alternate years. (R 420 offered in Israel summer term.) A study of places and the scenes of biblical history with a special emphasis upon archeological findings as they relate to the events of the Old Testament.

### R 330 OLD TESTAMENT PROPHETS\*

4 hours. Offered 1969-70 and alternate years. A study of historical backgrounds, literature, and spiritual themes of the books of the Hebrew prophets, Isaiah to Malachi.

### R 340 OLD TESTAMENT POETRY\*

2 hours. Identical, except in amount of credit awarded, with R 240 for upper division students.

### R 360 THE SYNOPTIC GOSPELS\*

2 hours. Identical, except in amount of credit awarded, with R 260 for upper division students.

### R 370 THE WRITINGS OF JOHN\*

2 hours. Identical, except in amount of credit awarded, with R 270 for upper division students.

### R 400 THE ACTS\*

4 hours. Offered 1970-71 and alternate years. A study of the New Testament church as shown in The Acts.

### R 410 PAUL'S EPISTLES\*

4 hours. Offered 1970-71 and alternate years. A study of the New Testament church as reflected in the writings of Paul. The Epistles and their doctrines will be related to the evangelistic activities as reported in The Acts.

### R 480 HEBREWS AND THE GENERAL EPISTLES\*

4 hours. Offered 1970-71 and alternate years. A study of the non-Pauline letters of the New Testament.

## CHRISTIAN EDUCATION

### Lower Division

#### CEd 111, 112, 113 INTRODUCTION TO CHRISTIAN EDUCATION

3 hours each term. Offered 1969-70 and alternate years. A basic survey of the history and principles of Christian education in the first term is followed in the second and third terms by a study of teaching methods as they relate to various age groups and agencies of the church.

## **Upper Division**

### **Ced 310 HUMAN GROWTH AND DEVELOPMENT**

3 hours. Identical with Psy 310. See Division VI for description of course and prerequisite.

### **Ced 320 CURRICULUM IN CHRISTIAN EDUCATION**

3 hours. Offered 1970-71 and alternate years. Development of criteria for the evaluation of educational materials is followed by research into the curricula available for use in the Sunday school, Vacation Bible School, youth organizations, and other agencies of the church. An analysis of the requirements for a comprehensive curriculum is attempted. Prerequisite: R 111, 112, 113 Introduction to Christian Education.

### **Ced 330 DEVELOPMENTAL PSYCHOLOGY**

3 hours. Identical with Psy 330. See Division VI for description of course and prerequisite.

### **Ced 340 FIELD STUDY IN CHRISTIAN LEADERSHIP**

2 hours. Offered 1970-71 and alternate years. Internship in the areas of Christian education and pastoral leadership. Open to a limited number of upper division students upon the approval of the religion faculty. Prerequisite: R 111, 112, 113 Introduction to Christian Education and a year's sequence in Bible with average grades of "C" in these courses; for ministerial students in the area of pastoral leadership, an average grade of "C" in all religion courses taken previously with a minimum of fifteen term hours in religion completed before registering for Field Study. Approved projects requiring more than one term will have credits awarded upon completion of the project.

### **Ced 350 INSTRUCTIONAL MEDIA**

2 hours, spring term. Identical with Ed 350. See Division I for description of course and prerequisite.

### **Ced 360 SPECIAL PROBLEMS IN CHRISTIAN EDUCATION**

3 hours. Offered 1970-71 and alternate years. Special attention is given to methods of administration in Christian education including youth camps, vacation schools, and other more specialized aspects of the teaching ministry of the church. Prerequisite: R 111, 112, 113 Introduction to Christian Education.

### **Ced 410 GUIDANCE AND COUNSELING**

5 hours. Identical with Psy 410. See Division VI for description of course and prerequisite.

### **Ced 460 PSYCHOLOGY OF LEARNING**

3-4 hours. Identical with Psy 460. See Division VI for description of course and prerequisite.

## **PHILOSOPHY**

### **Lower Division**

#### **Phl 210 INTRODUCTION TO PHILOSOPHY**

4 hours. A study of elementary problems about knowledge, nature, and values.

### **Phl 220 LOGIC**

4 hours. Practical exercises in the development of effective thinking. Fallacies and propaganda techniques will be studied as well as procedures in deductive and inductive reasoning.

### **Phl 230 ETHICS**

4 hours. A survey of ethical theories by which men live with special attention to Christian moral philosophy.

### **Phl 271, 272, 273 SOPHOMORE HONORS COLLOQUIUM**

1 hour. Limited to sophomores in the Intensified Studies program. Discussion of literary and philosophical themes from selected books.

## **Upper Division**

### **Phl 310 INTRODUCTION TO PHILOSOPHY**

3 hours. Identical, except in amount of credit awarded, with Phl 210 for upper division students.

### **Phl 320 LOGIC**

3 hours. Identical, except in amount of credit awarded, with Phl 220 for upper division students.

### **Phl 330 ETHICS**

3 hours. Identical, except in amount of credit awarded, with Phl 230 for upper division students.

### **Phl 371, 372, 373 JUNIOR HONORS COLLOQUIUM**

1 hour. Limited to juniors in the Intensified Studies program. A continuation of Phl 271, 272, 273 Sophomore Honors Colloquium.

### **Phl 410 SOCIAL THEORY**

2 hours. Offered 1969-70 and alternate years. Identical with Soc 410. See Division VI for description of course and prerequisite.

### **Phl 430 SPECIAL PROBLEMS IN PHILOSOPHY**

2 hours. Research dealing with selected problems in metaphysics, epistemology, or axiology. Prerequisite: Phl 210 Introduction to Philosophy or permission of the instructor.

## **RELIGION**

## **Upper Division**

### **R 300 PERSUASIVE ADDRESS**

4 hours. Identical with Sp 300. See Division III for description of course and prerequisite. Those taking this course under religion will do additional work in biblical exegesis. The course provides a background for deeper homiletical training at the seminary level.

### **R 350 THE HOLY LAND IN HISTORY AND PROPHECY\***

3-4 hours, summer term. Offered in Israel. A study of the environment in which certain Bible prophecies were made and of their fulfillment in history, with opportunity for observing archeological evidence of their fulfillment.

### **R 380 CHRISTIAN APOLOGETICS\***

3 hours. A study of principles of Christianity as expressed by classic and contemporary philosophers and theologians.



**R 381 HISTORY OF FRIENDS\***

3 hours. The Quaker movement will be studied against the setting of its historical, social, and religious background.

**R 382 DOCTRINE OF FRIENDS\***

3 hours. The distinguishing beliefs of the Friends Church will be studied from the important doctrinal documents of its history. Contemporary trends will be examined.

**R 401 THE ANCIENT WORLD\***

5 hours. Offered 1969-70 and alternate years. The focus is upon the Graeco-Roman world with a survey of the civilizations from which it grew and the emergence of Christendom within the western world. The course will lead up to A.D. 600. Identical with Hst 401.

**R 402 MEDIEVAL AND EARLY MODERN HISTORY\***

5 hours. Offered 1969-70 and alternate years. A study of the events and major ideas of the medieval and early modern period up to A.D. 1648. The significant role of Christianity in history will be noted. Identical with Hst 402.

**R 403 CHRISTIANITY IN THE MODERN WORLD\***

4 hours. Offered 1969-70 and alternate years. The spread and influence of Christianity from the religious wars to the present time. The impact of Christianity upon culture and of secularism upon the forms of Christianity will be noted.

**R 430 MISSIONS AND EVANGELISM**

4 hours. Offered 1970-71 and alternate years. A study of the methods of Christian outreach utilized by the church both within a given culture and outside that culture in missionary endeavor.

**R 431, 432, 433 THEOLOGY\***

3 hours each term. Offered 1969-70 and alternate years. An introductory study of theism followed by a survey of systematic theology.

**R 440 COMPARATIVE RELIGIONS\***

4 hours. Offered 1970-71 and alternate years. A comparative study between Christianity and other prominent religions of the world, such as Buddhism, Mohammedanism, and Hinduism. Attention is given also to modern religious cults.

**R 450 CHRISTIAN WORSHIP**

2 hours. Offered 1970-71 and alternate years. A research course in which different types of worship are studied against the perspectives of history and the response of the Christian community to contemporary needs.

**R 460 PASTORAL MINISTRY**

3 hours. Offered 1970-71 and alternate years. A study of the nonpreaching phases of pastoral work, such as church administration, publicity, personal and community contacts, visitation, counseling, and the minister's organization of time. Some attention will be given to pastoral psychology.

**R 490 CONTEMPORARY RELIGIOUS THOUGHT\***

3 hours. A seminar in which contemporary theologians, philosophers, and religious thinkers are read and discussed. Required of all majors in religion. Open to other senior students on a pass/fail basis.

# **Division VI**

## **Social Science**

Cochairmen: Mackey Hill and Sheldon Louthan

Burton Bastuscheck, Harvey Campbell, Paul Cammack, Edwin Cohen, Frank Cole, Lester DeKoster, Dieter Engelhardt, Myron Goldsmith, Sheldon Jackson, Lynwood Lundquist, Becky Mansfield, George Moore, Arthur Roberts, Davis Woodward.

### **Basic Objectives**

1. To enable the student to acquire basic knowledge, understanding, and appreciation of the developments and achievements of past general culture.
2. To enable the student to formulate critical standards by which current changes may be evaluated in the light of the past and to see the role of the individual in these changes.
3. To help the student to learn about human behavior, values, and experiences for the purpose of understanding, describing, predicting, and directing himself and his environment in such ways that he matures into an effective, integrated, goal-directed Christian citizen.
4. To provide the student with backgrounds and skills preliminary to graduate or advanced study.
5. To provide competence in these aspects of the liberal arts program of studies preliminary to a career in teaching, law, diplomacy, journalism, social service, business, the Christian ministry, and others.

## **ECONOMICS AND BUSINESS**

### **Major Requirements**

Bus 101, 102, 103 Principles of Accounting; Bus 201, 202, 203 Introduction to Business; Eco 201, 202, 203 Principles of Economics; eight

term hours of history; PSc 211, 212/311, 312 American Government; and Soc 201, 202 Principles of Sociology. Additional economics and business courses totaling twenty-four upper division hours including Eco 490 Senior Seminar must be completed. Additional recommended courses are: Phl 210/310 Introduction to Philosophy; Phl 230/330 Ethics; Sp 110 Voice and Diction; and Sp 300 Persuasive Address.

## **BUSINESS**

### **Lower Division**

Bus 101, 102, 103 PRINCIPLES OF ACCOUNTING

3 hours each term. A basic course in accounting theory and practice.

Bus 201, 202 INTRODUCTION TO BUSINESS

3 hours, fall and winter terms. The role of business in a modern society. The objectives and functions of business firms. Opportunities in business.

Bus 210 PRINCIPLES OF AUDITING

3 hours, spring term. Offered 1969-70 and alternate years. An advanced course in accounting as it relates to auditing.

### **Upper Division**

Bus 301, 302, 303 BUSINESS LAW

3 hours each term. Offered 1969-70 and alternate years. A course designed to acquaint the student with the legal aspects of common business transactions.

Bus 310 PRINCIPLES OF AUDITING

3 hours, spring term. Offered 1969-70 and alternate years. Identical with Bus 210, for upper division students.

Bus 320 PERSONNEL MANAGEMENT

3 hours, winter term. Offered 1970-71 and alternate years. Philosophy behind obtaining and maintaining an effective work force. Procedures and theories followed in carrying out a modern personnel program. Emphasis is given to human relations.

Bus 340 MARKETING

3 hours, spring term. Offered 1969-70 and alternate years. An introduction to the basic problems and practices in marketing management. Offers the student a broad and necessary understanding of marketing problems. Identical with Eco 340. Prerequisite: Eco 201, 202, 203 Principles of Economics or permission of the instructor.

## **ECONOMICS**

### **Lower Division**

Eco 201, 202, 203 PRINCIPLES OF ECONOMICS

3 hours each term. A study of basic economics as it relates to the individual and to the business community.

### **Upper Division**

Eco 320 LABOR ECONOMICS

3 hours, winter term. Offered 1969-70 and alternate years. A survey of



the labor market, unemployment, wage theories, and various types of labor legislation in relation to national income and business cycles. Prerequisite: Eco 201, 202, 203 Principles of Economics.

#### **Eco 330 MANAGEMENT ECONOMICS**

3 hours, fall term. Offered 1969-70 and alternate years. The study of economics as a prime factor in the managing of resources and in the making of business decisions. Prerequisite: Eco 201, 202, 203 Principles of Economics.

#### **Eco 340 MARKETING**

3 hours, spring term. Offered 1969-70 and alternate years. Identical with Bus 330. See above for description of course and prerequisite.

#### **Eco 421 PUBLIC FINANCE AND BANKING**

3 hours, fall term. Offered 1970-71 and alternate years. Principles of public and private finance, including taxation, the nature and function of money, and the banking system. Prerequisite: Eco 201, 202, 203 Principles of Economics.

#### **Eco 422 ECONOMIC PROBLEMS**

3 hours, winter term. Offered 1970-71 and alternate years. Emphasizes economic problems on national and international level and their relationship to government and business. Identical with PSc 422. Prerequisite: Eco 201, 202, 203 Principles of Economics.

#### **Eco 423 ECONOMIC DEVELOPMENT**

3 hours, spring term. Offered 1970-71 and alternate years. A study of problems of attaining economic progress by countries in various stages of economic development. Prerequisite: Eco 201, 202, 203 Principles of Economics.

#### **Eco 490 SENIOR SEMINAR**

3 hours, spring term. Required of majors in economics and business.

## **GEOGRAPHY**

#### **Geo 101, 102, 103 INTRODUCTION TO GEOGRAPHY**

3 hours each term. An introduction to physical and cultural geography.

## **HISTORY**

### **Major Requirements**

Hst 101, 102, 103 Civilizations and Hst 201, 202, 203 United States are required. A minimum of six hours each in at least three of the following must be included: Principles of Economics; Principles of Sociology or Cultural Anthropology; Political Science or American Government; Introduction to Geography. Additional history courses totaling thirty-three upper division hours including Hst 490 Senior Seminar must be completed.

### **Lower Division**

#### **Hst 101, 102, 103 CIVILIZATIONS**

3 hours each term. A brief survey of civilizations, ancient through modern.

## Hst 201, 202, 203 UNITED STATES

3 hours each term. A history of America from its colonial origins to its contemporary leadership.

## Upper Division

### Hst 300 AMERICAN ECONOMIC HISTORY

4 hours. Offered 1969-70 and alternate years. A survey of economic developments in American history.

### Hst 310 AMERICAN CONSTITUTIONAL DEVELOPMENT

4 hours. Offered 1969-70 and alternate years. Identical with PSc 310. See below for description of course and prerequisite.

### Hst 330 PACIFIC NORTHWEST

3 hours, spring term. Offered 1969-70 and alternate years. The settlement and history of the Pacific Northwest.

### Hst 331, 332 ENGLAND

4 hours each term. Offered 1970-71 and alternate years. A history of England, Great Britain, the empire, and the commonwealth with emphasis upon constitutional and cultural-social change.

### Hst 350 LATIN AMERICA

5 hours. Offered 1970-71 and alternate years. Latin American countries from colonial times to the present.

### Hst 360 MODERN RUSSIA

5 hours. Offered 1970-71 and alternate years. Twentieth-century Russia with emphasis since 1917.

### Hst 370 FAR EAST

5 hours. Offered 1970-71 and alternate years. Political and cultural developments of the major Far Eastern countries.

### Hst 401 ANCIENT WORLD

5 hours. Offered 1969-70 and alternate years. Identical with R 401. See Division V for description of course and prerequisite.

### Hst 402 MEDIEVAL AND EARLY MODERN HISTORY

5 hours. Offered 1969-70 and alternate years. Identical with R 402. See Division V for description of course and prerequisite.

### Hst 421, 422 MODERN EUROPE

4 hours each term. Offered 1969-70 and alternate years. European political, social, economic, and cultural developments from 1648 to the present.

### Hst 450 AMERICAN FOREIGN RELATIONS

4 hours. Offered 1970-71 and alternate years. A history of the emergence of American foreign policy since 1776. Identical with PSc 450.

### Hst 460 TWENTIETH-CENTURY UNITED STATES

4 hours. Offered 1969-70 and alternate years. A survey of change in the United States since 1898 with emphasis since 1932.

### Hst 470 GREAT ISSUES IN HISTORY

4 hours. Offered 1970-71 and alternate years. A course for history majors

who wish to examine more deeply various historical interpretations than the regular course ordinarily allows.

#### **Hst 490 SENIOR SEMINAR**

3 hours, each year. Historiography and research.

## **POLITICAL SCIENCE**

### **Major Requirements**

PSc 211, 212/311, 312 American Government; PSc 330 State and Local Government; and Hst 201, 202, 203 United States are required.

A minimum of six hours in at least three of the following must be included: Principles of Economics; Principles of Sociology or Cultural Anthropology; Introduction to Geography; Civilizations; Statistics. Additional political science courses totaling thirty upper division hours including PSc 490 Senior Seminar must be completed.

### **Lower Division**

#### **PSc 200 INTRODUCTION TO POLITICAL SCIENCE**

3 hours. The basic concerns, fields, and methods of study of political science.

#### **PSc 211, 212/311, 312 AMERICAN GOVERNMENT**

3 hours each term. The theory and practice of the federal government. Additional work is required for upper division credit.

#### **PSc 230/330 STATE AND LOCAL GOVERNMENT**

4 hours. Offered 1970-71 and alternate years. State and local governments in theory and practice.

### **Upper Division**

#### **PSc 300 COMPARATIVE GOVERNMENTS**

4 hours. Offered 1969-70 and alternate years. The origins, nature, and forms of government of the leading states of the contemporary world.

#### **PSc 310 AMERICAN CONSTITUTIONAL DEVELOPMENT**

4 hours. Offered 1969-70 and alternate years. A study of the growth of the American constitution from early times to the present day. Identical with Hst 310.

#### **PSc 320 POLITICAL PARTIES**

4 hours. Offered 1969-70 and alternate years. The development of the American political party system.

#### **PSc 340 INTERNATIONAL RELATIONS**

4 hours. Offered 1970-71 and alternate years. Contemporary relations between states in their historical perspective.

#### **PSc 350 FIELD EXPERIENCE IN PUBLIC SERVICE**

1 to 3 hours. Maximum credit four hours.

#### **PSc 400 PUBLIC ADMINISTRATION**

4 hours. Offered 1969-70 and alternate years. The role of administration in modern government.



### **PSc 422 ECONOMIC PROBLEMS**

4 hours. Offered 1970-71 and alternate years. Identical with Eco 422. See above for description of course and prerequisite.

### **PSc 450 AMERICAN FOREIGN RELATIONS**

4 hours. Offered 1970-71 and alternate years. Identical with Hst 450. See above for description of course and prerequisite.

### **PSc 490 SENIOR SEMINAR**

3 hours, spring term. Required of political science majors.

## **PSYCHOLOGY**

### **Major Requirements**

A minimum of eight term hours of Psy 201 General Psychology and Psy 202 Personality is required. Certain other prerequisites are necessary for some of the 300 and 400 courses. A student must complete a minimum of forty-eight term hours in psychology, thirty of which must be upper division. Psy 340 Statistical Procedures and Psy 490 Senior Seminar are required.

## **PSYCHOLOGY-SOCIOLOGY**

### **Major Requirements**

Psy 201 General Psychology, Psy 202 Personality, Soc 201, 202 Principles of Sociology, and Soc 203 Social Problems are prerequisite to upper division courses. A student must complete the minimum of twenty-seven term hours in each field of psychology and sociology, eighteen of which must be upper division courses. Psy 490 Systems and Theories of Psychology and Soc 490 Senior Seminar are required.

## **PSYCHOLOGY**

### **Lower Division**

#### **Psy 201 GENERAL PSYCHOLOGY**

4 hours, fall and winter terms. An introductory study of human behavior and experience including theories and methods of psychology, the nature of human development, learning and retention, sensation and perception, thinking, and group processes.

#### **Psy 202 PERSONALITY**

4 hours, spring term. A treatment of the major theoretical approaches to the study of personality, including motivation and drive, emotion, conflict and frustration, mental health, and therapy.

### **Upper Division**

#### **Psy 300 GROUP DYNAMICS**

3 hours, winter term. A study of principles and techniques involved in interaction of individuals within various groups. This course is designed to assist students who are preparing to work with groups in schools, churches, youth organizations, industry, and other types of groups. Prerequisite: Psy 201 General Psychology.

### **Psy 310 HUMAN GROWTH AND DEVELOPMENT**

3 hours, spring term. A study of the physical, intellectual, social, moral, and religious growth and development of children of elementary and junior high school ages. Laboratory study and observation of learners at home and in the classroom are an important part of this course. Identical with CED 310. Prerequisite: Psy 201 General Psychology.

### **Psy 320 PSYCHOLOGICAL FOUNDATIONS OF EDUCATION**

4 hours, winter term. Identical with Ed 320. See Division I for description of course and prerequisite.

### **Psy 330 DEVELOPMENTAL PSYCHOLOGY**

3 hours, fall term. A problem-study approach to adolescent behavior dealing with the processes of human development that lead to maturity and effective functioning of the whole adolescent. Identical with CED 330. Prerequisite: Psy 201, General Psychology. Psy 310 Human Growth and Development is also recommended as background.

### **Psy 340 STATISTICAL PROCEDURES**

3 hours, fall term. Offered 1970-71 and alternate years. A study of elementary statistical procedures and their application to educational and psychological study and research. Identical with PE 340. Prerequisite: Psy 201 General Psychology and a good background in mathematics.

### **Psy 350 SOCIAL PSYCHOLOGY**

3 hours, spring term. A study of psychological and sociological processes at work in various kinds of personal and group behavior, including the role of social mores, social membership, and leadership. Identical with Soc 350. Prerequisite: Psy 201 General Psychology and Soc 201, 202 Principles of Sociology.

### **Psy 400 PSYCHOLOGICAL TESTS AND MEASUREMENTS**

5 hours, winter term. Offered 1970-71 and alternate years. A survey of the purposes, techniques, and basic assumptions in measurement of aptitudes, achievements, interests, intelligence, and personality. Some laboratory experiences in the administration, interpretation and scoring of tests are provided. Prerequisite: Psy 201 General Psychology and Psy 340 Statistical Procedures or permission of instructor.

### **Psy 410 GUIDANCE AND COUNSELING**

5 hours, fall term. A study of purposes, principles, and techniques in guidance and counseling designed to offer assistance to teachers, ministers, social workers, and others who are responsible for individual and group advising. Identical with Ed 410, CED 410. Prerequisite: Psy 201 General Psychology; Psy 202 Personality; and Psy 320 Psychological Foundations of Education. Background study of child psychology, adolescent psychology, and personality theories is desirable.

### **Psy 420 ABNORMAL PSYCHOLOGY**

5 hours, spring term. Offered 1969-70 and alternate years. A study of various kinds of nontypical behavior, probable causes, and current concepts of prevention and therapy. Emphasis is placed on normal motives, frustrations, and adjustment mechanisms which may become exaggerated into abnormal behavior. Prerequisite: Psy 201 General Psychology and Psy 202 Personality. Background study of personality theories, motivation, and developmental psychology is desirable.

### **Psy 430 PERSONALITY THEORIES**

3 hours, spring term. Offered 1970-71 and alternate years. Semi-independent study in various outstanding theories of personality. This course is designed to assist those who plan to teach or to enter social work, industrial management, and various kinds of guidance and counseling. Prerequisite: Psy 201 General Psychology; Psy 202 Personality; and consent of instructor. Background in developmental psychology, social psychology, and group dynamics is desirable.

### **Psy 460 PSYCHOLOGY OF LEARNING**

4 hours. Offered 1969-70 and alternate years. An advanced course in learning theory and practice, designed to give depth and understanding to students planning to specialize in teaching, learning, perception and related fields. Laboratory experiences provide an important part of this course. Identical with CEd 460. Prerequisite: Psy 201 General Psychology and Psy 320 Psychological Foundations of Education or consent of instructor.

### **Psy 470 MOTIVATION**

4 hours. Offered 1969-70 and alternate years. A study of tendencies, causes and sustaining aspects of human behavior. Designed to assist those who plan to teach or to enter social work, industrial management, and various kinds of guidance and counseling. Prerequisite: Psy 201 General Psychology; Psy 202 Personality; and consent of instructor.

### **Psy 475 FIELD EXPERIENCE**

2-5 hours, spring term. Supervised experiences in mental health agencies and institutions. Prerequisite: Consent of instructor.

### **Psy 480 SELECTED TOPICS**

3 hours, winter term. A seminar dealing with various topics as announced that represent current faculty interests and competencies. Intended primarily for seniors, but open to juniors upon consent of instructor.

### **Psy 490 SYSTEMS AND THEORIES OF PSYCHOLOGY**

3 hours. A seminar in which various schools of psychology, their origins, distinguishing characteristics, major contributions, theoretical positions, and contemporary issues are investigated. Required for psychology and psychology-sociology majors. Prerequisite: Psy 201 General Psychology; Psy 202 Personality; and twelve upper division hours in psychology.

## **SOCIAL STUDIES**

### **Upper Division**

#### **SS 440 TEACHING OF THE SOCIAL STUDIES**

3 hours. The objective, curriculum, procedures, evaluation, instructional materials, and resources in teaching social studies including observations and demonstrations. Prerequisite: Ed 330 Principles of Secondary Education.

#### **SS 490 SOCIAL SCIENCE SEMINAR**

3 hours. Readings and research across the social sciences related to education.



# **SOCIAL WORK CONCENTRATION**

Students majoring in sociology or psychology may begin professional training in social work at George Fox College. The concentration in social work includes the following courses: Soc 391 Principles of Social Work; Soc 392 Social Work Institutions; Soc 393 Social Casework, Group Work; and Soc 475 Social Work Agency Experience.

For students preparing for professional social work supporting courses in political science, economics, and philosophy are recommended.

## **SOCIOLOGY**

### **Major Requirements**

Soc 201, 202 Principles of Sociology, Soc 203 Social Problems, and Psy 340 Statistical Procedures are required. A minimum of six hours each in at least three of the following must be included: Principles of Economics; Civilizations; United States History; American Government; Introduction to Geography. Additional courses in sociology or anthropology totaling thirty upper division hours including Soc 490 Senior Seminar must be completed.

### **Lower Division**

#### **Soc 201, 202 PRINCIPLES OF SOCIOLOGY**

3 hours, fall and winter terms. The social forces and processes in the evolving life of modern social organization and man's interaction with it.

#### **Soc 203 SOCIAL PROBLEMS**

3 hours, spring term. Society's problems of and solutions for poverty, crime, immigration, race, family life, and other topics.

### **Upper Division**

#### **Soc 301, 302 CULTURAL ANTHROPOLOGY**

4 hours, winter and spring terms. A study of living and recent societies of the world, their languages, and their ways of life.

#### **Soc 310 PEACE AND WAR**

4 hours, fall term. Offered 1969-70 and alternate years. A survey of the social, economic, political, and religious factors in war and specific efforts to achieve peace.

#### **Soc 320 URBAN SOCIETY**

4 hours, spring term. Offered 1970-71 and alternate years. The study of minority relations, their problems, causes, and possible adjustments in American socio-cultural life.

#### **Soc 330 ETHNIC GROUP RELATIONS**

4 hours. Offered 1969-70 and alternate years. A study of racial characteristics and their causes, racial attitudes and their origins, and an examination of contemporary problems and solutions. Prerequisite: Soc 201, 202 Principles of Sociology and Soc 203 Social Problems or permission of the instructor.

**Soc 340 MARRIAGE AND THE FAMILY**

3 hours, fall term. Offered 1970-71 and alternate years. The origins, functions, problems, and possible adjustments in family life. Identical with Hec 340.

**Soc 350 SOCIAL PSYCHOLOGY**

3 hours, fall term. Offered 1970-71 and alternate years. Identical with Psy 350. See above for description of course and prerequisite.

**Soc 360/460 DEVIANT BEHAVIOR**

4 hours, winter term. Offered 1970-71 and alternate years. A study of individual and social factors in delinquency from causation to treatment and preventive programs.

**Soc 391 PRINCIPLES OF SOCIAL WORK**

3 hours, fall term. Social welfare as a function and response of society; welfare programs as related to social problems.

**Soc 392 SOCIAL WORK INSTITUTIONS**

3 hours, winter term. A study of the variety of settings in which social work is practiced; their organization and relationships.

**Soc 393 SOCIAL CASEWORK, GROUP WORK**

3 hours, spring term. Methods of social work with individuals, groups, and community organizations.

**Soc 475 SOCIAL WORK AGENCY EXPERIENCE**

2-5 hours, any term. Supervised experiences in social welfare agencies and institutions. Prerequisite: Consent of instructor.

**Soc 410 SOCIAL THEORY**

2 hours. Offered 1969-70 and alternate years. A critical study of some of the major sociologists and social philosophers from Comte to the present. Prerequisite: Soc 201, 202 Principles of Sociology and Phl 210/310 Introduction to Philosophy or permission of the instructor. Identical with Phl 410.

**Soc 490 SENIOR SEMINAR**

3 hours, spring term. Required of sociology and psychology-sociology majors.



# Faculty, Administration, and Board of Trustees

The following registers are for the 1968-69 academic year.

## FACULTY

The faculty is composed of all people involved in instruction, certain officers who administer as well as teach, and the librarians. They are classified as professors, associate professors, assistant professors, and instructors, depending upon degree, seniority, tenure, and experience.

**MILO CLIFTON ROSS**, President. B.A. Willamette University, D.D. Cascade College, L.H.D. Willamette University. George Fox College, 1954-

**DAVID C. Le SHANA**, Executive Vice-president. B.A. Taylor University, M.A. Ball State University, Ph.D. University of Southern California. George Fox College, 1967-

**ARTHUR O. ROBERTS**, Dean of Faculty, Professor of Religion and Philosophy, Director of Intensified Studies. B.A. George Fox College, B.D. Nazarene Theological Seminary, Ph.D. Boston University. George Fox College, 1953-

**FRANK L. COLE**, Dean of Administration, Associate Professor of Business. B.A. George Fox College, M.A. University of Oregon. George Fox College, 1963-

**HAROLD ANKENY**, Dean of Students, Instructor in Education and Religion. B.A. George Fox College. George Fox College, 1968-

**LANSING BULGIN**, Provost of Associated Christian Colleges of Oregon. B.A. Linfield College, M.M., Ph.D. Indiana University. Associated Christian Colleges of Oregon, 1966-

**DAVID BERG**, Instructor, Basketball and Baseball Coach. B.Ed. Seattle University. George Fox College, 1968-



- JOHN BREWSTER, Professor of Physics and Mathematics. B.A. Pasadena College, M.A., Ph.D. University of California at Los Angeles. George Fox College, 1964-
- PAUL CAMMACK, Associate Professor of Spanish and Education. B.A. Willamette University, M.A. University of Oregon. George Fox College, 1962-
- HARVEY CAMPBELL, Associate Professor of History. B.A. George Fox College, M.A. Colorado State College of Education. George Fox College, 1958-
- DONALD CHITTICK, Visiting Scholar in Chemistry. B.S. Willamette University, Ph.D. Oregon State University. George Fox College, 1968-
- ROY CLARK, Associate Professor of Speech. Th.B. Marion College, B.A. Friends University, M.Mus.Ed. University of Portland. George Fox College, 1944-50; 1968-
- GENEVIEVE COLE, Assistant Librarian. B.A. George Fox College, M.L.S. University of Washington. George Fox College, 1963-
- DIETER ENGELHARDT, Assistant Professor of German and History. Certificate of Education, Luise-Henriette-School of Languages, Berlin, Germany, B.A. Azusa College, Master's Degree Candidate, Portland State University. George Fox College, 1966-
- JERRY FRIESEN, Assistant Professor of Music, Acting Chairman of Division of Fine Arts 1968-69. A.A. Reedley Jr. College, B.M.Ed., M.M.Ed. Willamette University. George Fox College, 1966-
- ROBERT GILMORE, Assistant Professor of Spanish and Education, Director of Instructional Media. B.A. Azusa College, B.D. California Baptist Theological Seminary, M.S.Ed. University of Southern California. George Fox College, 1964-
- MYRON D. GOLDSMITH, Professor of Religion and Language Arts, Chairman of Division of Religion. B.A. Friends University, B.D. Asbury Seminary, Ph.D. Boston University. George Fox College, 1962-
- DENNIS HAGEN, Associate Professor of Music, Chairman of Division of Fine Arts. B.A. Whitworth College, M.Mus.Ed. Indiana University, Doctoral Candidate, Indiana University. George Fox College, 1964- on leave
- MYRTLE HAMILTON, Assistant Professor of Physical Education. A.A. Hesston College, B.A. Goshen College, M.A. State University of Iowa. George Fox College, 1968-
- MACKEY HILL, Professor of History and Political Science, Chairman of Division of Social Science. B.A. University of California at Los Angeles, M.A. University of the Pacific, Doctoral Candidate, University of Oregon. George Fox College, 1949-
- DAVID HOWARD, Assistant Professor of Music. B.A. Simpson Bible College, B.A., M.A. San Francisco State College. George Fox College, 1968-
- FRAN HOWARD, Assistant Professor of Physical Education. B.S. Lewis and Clark, M.S. The Creighton University. George Fox College, 1967-
- JAMES KENNISON, Registrar, Director of Admissions. B.A. Eastern Washington State College, M.S. University of Washington, Ed.D. University of Kentucky. George Fox College, 1960-62; 1967-

JO KENNISON, Assistant Professor of Drama and English. B.A. Asbury College, Master's Degree Candidate, University of Washington. George Fox College, 1960-62; 1967-

LeROY L. LANE, Associate Professor of Speech. B.A. Cascade College, M.A. Willamette University, Doctoral Candidate at University of Oregon. George Fox College, 1963-64; 1966- on leave

ROBERT LAUNGER, Assistant Professor of Music. B.S. Portland State University. George Fox College, 1967-

JERALD LOUTHAN, Assistant Professor of Physical Education, Director of Athletics. B.S., M.S. Kansas State College. George Fox College, 1966-

SHELDON LOUTHAN, Associate Professor of Psychology, Director of Counseling, Testing, and Guidance; Cochairman of Division of Education and Psychology. B.A. Friends University, M.A. Los Angeles State College, Ph.D. University of Oregon. George Fox College, 1963-

CECILIA MARTIN, Professor of Language Arts, Chairman of the Division of Language Arts. B.A., M.A., Ph.D. University of Washington. George Fox College, 1955-

GENETTE McNICHOLS, Librarian. B.A. Seattle Pacific College, M.L.S. University of Portland. George Fox College, 1956-

PAUL MILLS, Professor of Bible. B.A., Th.M. Northwest Nazarene College. George Fox College, 1947-

GEORGE H. MOORE, Professor of Psychology. B.A. Adrian College, M.Ed. University of Oregon, Ph.D. University of Iowa. George Fox College, 1943-47; 1961- on leave

HECTOR MUNN, Associate Professor of Science, Chairman of Division of Natural Science. B.A. Seattle Pacific College, M.S. Oregon State University, Doctoral Candidate, Oregon State University. George Fox College, 1958-62; 1966-

DAVID MYTON, Associate Professor of Education, Director of Teacher Education, Cochairman of Division of Education and Psychology. B.R.E. Malone College, B.A. Youngstown University, M.Ed. University of Pittsburgh, Ph.D. Ohio State University. George Fox College, 1966-

G. DALE ORKNEY, Associate Professor of Biology, B.A. Northwest Nazarene College, M.S. University of Idaho, Doctoral Candidate, University of Idaho. George Fox College, 1963- on leave

EVAN REMPEL, Associate Professor of Mathematics and Physics. B.A., M.A. Montana State College. George Fox College, 1954-

SAMUEL E. SHERRILL, Dean of Men, Assistant Professor of English. B.A. Seattle Pacific College, M.A. Portland State University. George Fox College, 1966-

THOMAS W. SINE, Jr., Assistant Professor of Sociology, B.A. Cascade College, M.A. San Jose State College. George Fox College, 1966- on leave

JAMES STANLEY, Assistant Professor of Mathematics and Education. B.A. Malone College, M.T.S. The College of William and Mary. George Fox College, 1968-

HELEN STREET, Professor of Home Economics. B.A. Kansas State College, M.Hec. Oregon State University. George Fox College, 1945-

ELVER VOTH, Associate Professor of Biology. B.A., Th.B. Cascade College, M.A., Ph.D. Oregon State University. George Fox College, 1964-

MARJORIE WEESNER, Associate Professor of Physical Education. B.S. George Fox College, M.Ed. Linfield College, Doctoral Candidate, University of Oregon. George Fox College, 1963- on leave

## **Special Faculty**

JAMES ANNALA, Assistant Professor of Strings. B.M. Lewis and Clark College, M.M. University of Portland. George Fox College, 1968-

BURTON C. BASTUSCHECK, Professor of Sociology. B.A. Pennsylvania State University, B.D. Drew Theological Seminary, S.T.M. Wesley Theological Seminary, Th.D. Iliff School of Theology. George Fox College, 1968-

PHYLLIS CAMMACK, Assistant Professor of English. B.A. Willamette University, M.A. Portland State University. George Fox College, 1962-67; 1968-

EDWIN COHEN, Assistant Professor in Business. B.S. University of Oregon. George Fox College, 1963-

LUDLOW CORBIN, Associate Professor of Science. Th.B., B.A. Marion College, M.A. Ball State Teachers College. George Fox College, 1968-

EVERETT CRAVEN, Assistant Professor of Religious Education. B.A. George Fox College, B.R.E. Azusa College, M.A. Ball State Teachers College. George Fox College, 1960-

LESTER DeKOSTER, Visiting Scholar in Political Science—Fall Term. B.A. Calvin College, M.A., M.A.L.S., Ph.D. University of Michigan. George Fox College, 1968

RICHARD ELLIOTT, Assistant Professor of Music. B.A. Linfield College, M.M.E. Illinois Wesleyan University. George Fox College, 1968-

RUTH GILMAN, Assistant Professor of Music. B.S. State University of New York, College at Potsdam. George Fox College, 1966-

BARRY HUBBELL, Instructor in Journalism. B.A. George Fox College. George Fox College, 1967-

SHELDON JACKSON, Visiting Scholar in History—Winter Term. Th.B., B.A. Marion College, M.A. University of Kansas, Doctoral Candidate, University of Southern California. George Fox College, 1968

CHRISTABEL LAUINGER, Associate Professor of Music. B.M. University of Rochester, M.M. Indiana University, Doctoral Candidate, Indiana University. George Fox College, 1963-

GEORGE LAYMAN, Associate Professor of Business Law. B.A., J.D. University of Oregon. George Fox College, 1963-

LYNWOOD LUNDQUIST, Assistant Professor of Economics. B.A. Oregon State University, M.S. University of Connecticut. George Fox College, 1962-

BECKY MANSFIELD, Assistant Professor of Social Science, Associated Christian Colleges of Oregon Director of Social Service. B.A. Linfield College, M.S.W. Portland State University. George Fox College, 1968-

CHARLES NIELSEN, Associate Professor of Sociology. B.A. Anderson College, B.D. Anderson College Theological Seminary, M.S. South Dakota State University. George Fox College, 1968-

DOROTHY OPPENLANDER, Assistant Professor of Mathematics and Music. B.A., M.Ed. Lewis and Clark College. George Fox College, 1959-60; 1961-



LESLIE PARROTT, Associate Professor of Psychology. Th.B. Olivet College, M.A. Willamette University, Ph.D. Michigan State University. George Fox College, 1964-

WILMA L. PERRY, Professor of Psychology and Education. B.S. Anderson College, M.Ed., Ed.D. University of Oregon. George Fox College, 1968-

SHERIE SHERRILL, Instructor in English. B.A. Seattle Pacific College. George Fox College, 1968-

PETER C. SNOW, Assistant Professor of Art. B.S. Portland State University, M.A.T. Reed College, M.Ed. Oregon State University. George Fox College, 1967-

CAROLE STEWART, Assistant Professor of Music. B.M. University of Oregon. George Fox College, 1966-

R. DAVIS WOODWARD, Associate Professor of Sociology. B.A. Friends University, M.A. University of California. George Fox College, 1963-

## **Cooperating Public School Teachers**

MOLALLA UNION HIGH SCHOOL—Mr. Delmar Sandgren

NEWBERG HIGH SCHOOL—Mrs. Carolyn DeCrevel

Mr. Stanley Williams

RENNE JUNIOR HIGH SCHOOL—Mr. Eric Johnson

SHERWOOD UNION HIGH SCHOOL—Miss Iola Martinson

Mr. Al Olson

TIGARD UNION HIGH SCHOOL—Mr. Royce McDaniel

YAMHILL-CARLTON UNION HIGH SCHOOL—Miss Ruth Kilgore

## **Faculty Emeriti**

MARY SUTTON, B.A. University of Washington, 1911; Instructor of English and Languages, Pacific College, 1911-13; Acting Professor of German, 1913-14; Teacher of Languages, High School, Yelm, Washington, 1914-15; M.A. University of Oregon 1927; George Fox College 1915-1963; Litt.D. George Fox College 1961.

OLIVER WEESNER, B.S. Earlham College, 1909; Teacher in public schools of Indiana 1903-06; Teacher of Mathematics, Pendleton, Indiana, High School 1909; Teaching Fellow, University of Washington, 1912-14; Registered Professional Engineer, 1919; George Fox College 1909-1952.

## **ADMINISTRATION AND STAFF**

### **Presidents of Pacific and George Fox College**

Thomas Newlin, M.A.—1891-1900

Henry Edwin McGrew, M.S., M.A.—1900-1907

W. Irving Kelsey, B.D., Ph.D.—1907-1911

Levi T. Pennington, President Emeritus, M.A., D.D., LL.D.—1911-1941

Emmett W. Gulley, M.A.—1941-1947

Gervas A. Carey, B.D., D.D.—1947-1950

Paul E. Parker, M.A., Ph.D.—1950-1952

Administrative Committee—1952-1954

Milo C. Ross, A.B., D.D., L.H.D.—1954

## Administrative Officers

Milo Clifton Ross, B.A., D.D., L.H.D. ....	President
David C. Le Shana, B.A., M.A., Ph.D. ....	Executive Vice-president
Arthur O. Roberts, B.A., B.D., Ph.D. ....	Dean of Faculty
Frank L. Cole, B.A., M.A. ....	Dean of Administration
Harold Ankeny, B.A. ....	Dean of Students
Lansing Bulgin, B.A., M.M., Ph.D. ....	Provost of Associated Christian Colleges of Oregon

## Division Chairmen

Division I, Education and Psychology\*  
David V. Myton, Ph.D., Sheldon Louthan, Ph.D., Cochairmen

Division II, Fine and Applied Arts  
Jerry Friesen, M.M.Ed., Acting Chairman

Division III, Language Arts  
Cecilia Martin, Ph.D.

Division IV, Natural Sciences  
Hector Munn, M.S.

Division V, Religion  
Myron Goldsmith, Ph.D.

Division VI, Social Sciences  
Mackey Hill, M.A.

\* Beginning with the fall term, 1969, the psychology department will be a part of Division VI, Social Sciences.

## Administrative Staff

Edward Bruerd, B.A., B.D., M.A.,  
Director of Public Relations

Maurice G. Chandler, B.A., Associate  
Director of Development

Charline Craven, Dean of Women

Ronald S. Crecelius, B.A., Th.B.,  
M.R.E., M.A., Director of Christian Life

Allen Hadley, B.A., Associate  
Director of Admissions

M. Gene Hockett, B.A., B.D.,  
Executive Director of Alumni Association

James L. Kennison, B.A., M.S.,  
Ed.D., Registrar and Director of Admissions

William Loewen, B.A., M.A.,  
Manager of Bookstore

Sheldon Newkirk, B.A., Student  
Financial Aid Officer

Stuart M. Richey, Director of  
Physical Plant

Samuel E. Sherrill, B.A., M.A.,  
Dean of Men  
John Wisely, Director of Custodial Services

## General Staff

Vernon Bagley, Maintenance  
Jack Baker, Manager, SAGA Food Service

Alice Dixon, Switchboard-Reception

Sandra Graves, B.S., Bursar  
Barry Hubbell, B.A., Publicity Assistant

Catherine Loewen, Assistant  
Manager of Bookstore

Verna Munn, B.S., R.N., College Nurse

Joseph Reece, Printer  
Pearl Reece, Assistant to Printer  
Mary Sandoz, B.A., Directories  
Edna Williams, B.S., Recorder  
Arthur Winters, B.A., Student Post Office

Betty Ankeny, Carolyn Bagley,  
Marie Chapman, Kathryn Eichenberger, Leta Hickman, Lillian Louthan, Mary Myton, Frances Randle, Margaret Scott, Sheryl Taylor, Gwendolyn Winters, Vera Wisely, Tami Wright, Secretarial and Clerical  
Everett and Charline Craven, Sheldon and Gladys Newkirk, Head Residents

Hubert Armstrong, Clarence Bailey, Roy Durham, Clarence McConaughy, Security and Grounds

Minnie Eckman, Rossella Spangrud, Custodial

Edith Comfort, Maerita Durham, Elsie Hansen, Gertrude Hibbs, SAGA Cooks

# BOARD OF TRUSTEES

## Officers of the Board

Ivan L. Adams, Chairman

Charles A. Beals, Vice-chairman

Leo R. Crisman, Secretary

### FOR THREE YEARS ENDING AUGUST, 1969

Frederick B. Baker	.... 4946 31st Street N.E., Tacoma, Washington	98422
Floyd Bates	..... R.F.D. 4, Box 324, Salem, Oregon	97302
William H. Bauman	..... 2000 Cascade Drive, Lebanon, Oregon	97355
Cecil Binford	..... R.F.D. 6, Caldwell, Idaho	83605
T. Eugene Coffin, D.D.	..101 Quaker Hill Drive, Richmond, Indiana	47374
Senator Mark O. Hatfield	..... Room 6327, New Senate Office Building, Washington, D.C.	20510
Walter P. Lee	..... N. 6117 Maple, Spokane, Washington	99208
Dwight Macy	..... R.F.D. 1, Box 66B, Culver, Oregon	97734
Phillip Martin	..... 1345 West Road, Whittier, California	90603
Wayne Roberts, M.D.	..... 547 East Pine, Central Point, Oregon	97501
J. Emel Swanson	..... P.O. Box 639, Springfield, Oregon	97477
Walter Wilhite	..... R.F.D. 1, Star, Idaho	83669
Kenneth Williams	..... 1108 East Hancock, Newberg, Oregon	97132

### FOR THREE YEARS ENDING AUGUST, 1970

Charles A. Beals	..... 815 East 4th Street, Newberg, Oregon	97132
John C. Brougher, M.D.	..... 111 West 39th Street, Vancouver, Washington	98660
Gerald Dillon	..... 1440 Windsor Drive, Gladstone, Oregon	97027
M. Lowell Edwards, Sc.D.	..... 13191 Sandhurst Place, Santa Ana, California	92705
Dean Gregory	..... P.O. Box 266, Star, Idaho	83669
Homer Hester, D.D.S.	..... 912 East 4th Street, Newberg, Oregon	97132
Claude Lewis, D.D.S.	..... 545 East Pine, Central Point, Oregon	97501
Verl Lindley	..... 15233 East Jenkins Drive, Whittier, California	90604
Thelma Martin	..... R.F.D. 2, Caldwell, Idaho	83605
Donald McNichols	..... 3207 10th Avenue W., Seattle, Washington	98119
J. Arnold Owen	..... 1710 Sonoma Avenue, Berkeley, California	94707
Olive Shambaugh	..... P.O. Box 7144, Albuquerque, New Mexico	87104
Dorwin Smith	..... P.O. Box 624, Camas, Washington	98607

### FOR THREE YEARS ENDING AUGUST, 1971

Ivan L. Adams	..... 6735 S.E. Brooklyn, Portland, Oregon	97206
Wayne Antrim	..... P.O. Box Box 588, Springfield, Oregon	97477
Leo R. Crisman	..... P.O. Box 63, Molalla, Oregon	97038
Frank Deich	..... 3457 N.E. Couch, Portland, Oregon	97232
Elizabeth Edwards	..... 1012 Cherry Street, Newberg, Oregon	97132
Wilbert Eichenberger	..... P.O. Box 14093, Portland, Oregon	97214
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